Derwent World Patents Index

Polymer Indexing Hierarchy

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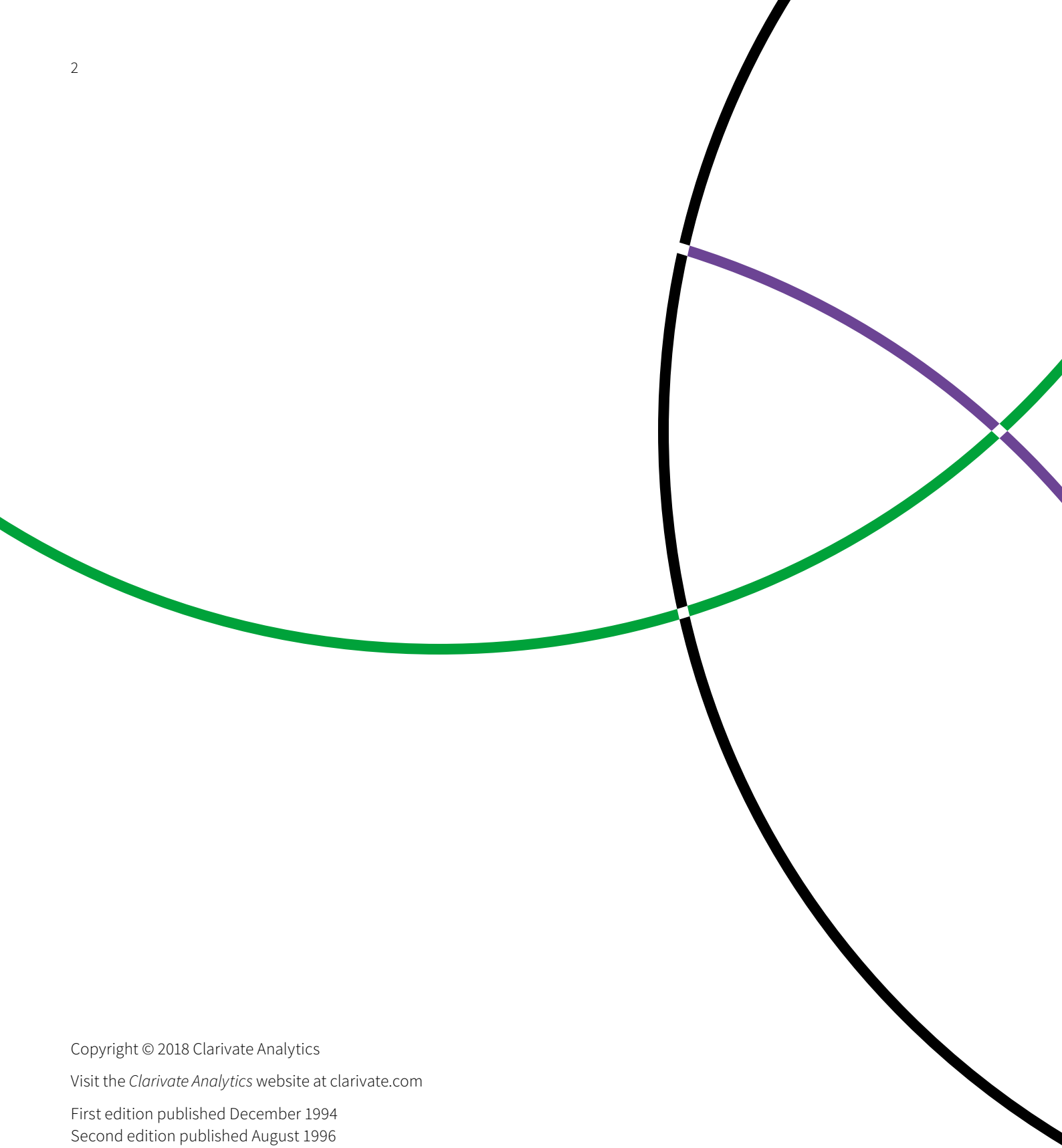

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Contents

Introduction

The Polymer Indexing system is hierarchical in structure and divided into facets. There are two basic sections to the Code – the Structural section and the Non-structural section.

The Structural section contains all the chemical information and is made up of the following facets:- Polymer Formers, Polymer Types, Natural Polymers, Modified Polymers, Chemicals and Chemical Aspects.

The Non-structural section contains all the non-chemical information and is made up of the following facets:- Novelty Descriptors, Universal Terms, Polymer Descriptors, Shape & Form, Additives, Catalysts, Chemical Processes, Physical Operations, Equipment, Properties and Applications.

Within each facet there are main terms or Broader terms (BT), with sub-divisions or Narrower terms (NT); there are also Used For terms (UF) to indicate synonyms and See Also terms (SA), giving other related terms which may be of interest. Some of the terms have Scope notes, which explain the use and limitation of the term; these are found directly below the concept and appear within " ". The codes for all the primary terms are situated to the left of the concept.

Enhancements

There have been enhancements to the system in 2004 and 1996. New concepts introduced in 2004 are indicated by (04) after the concept and likewise (96) for those introduced in 1996. For searching the new concepts using Polymer Indexing prior to their introduction, use the higher term in the hierarchy or the 'others' term if available. For example, the specific term Polypropylene terephthalate was introduced in 2004, prior to that it could be searched as the higher term Saturated polyester (P1978). However, Saturated polyester was only introduced in 1996 and so prior to that the term Polyester should be searched. Another example is n-Propyl acrylate which could be searched as Acrylic acid esters monoolefinic (G0340) or Acrylic acid esters monoolefinic, other (G0373) prior to 9601.

If the new concept is a main term and thus not in a hierarchy, such as Dendrimer, no codes exist for searching prior to 2004.

Other Polymer Indexing manuals available:-

Polymer Indexing Thesaurus – contains alphabetical listing of all terms and synonyms with their codes.

Polymer Indexing Reference Manual – contains Polymer Indexing Code List, Polymer Indexing Molecular Formula List and Polymer Indexing Chemical Aspects Graphical Definitions.

Polymer Indexing System Description – provides a detailed description of the Enhanced Polymer Index.

CPI Plasdoc Coding Systems - provides details of the hierarchical listing by subject area of all the Plasdoc codes from the time period 1966 -1994. Also included is a numerical listing of all the Plasdoc Codes, both Multipunch (AM) and Key Serial (KS) codes.

Polymer Descriptors

This facet contains functional concepts used to define the polymer formers. Throughout the hierarchies we have used the term polymer former to cover both monomers and condensants.

The format of the codes used in this facet is Hnnnn.

These terms have been arranged hierarchically where possible, with the Narrower terms (NT) autoposting the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Copolymer which has been coded should be searched using H0011-R. Searching H0011 will retrieve all references - indexed and autoposted. For a complete listing of all autoposted codes, see Polymer Indexing Reference Manual.

The homopolymer and copolymer terms are applicable to all types of polymer. The homopolymer term is applied to all polymers made from a single polymer former, for example – polycaprolactone, polyvinylchloride, polyaniline. The terms in the copolymer hierarchy are applied to any polymer made from two or more polymer formers. The binary copolymer term is applied to all polymers made from two polymer formers, for example – phenol-formaldehyde resin, ethylene-vinyl acetate copolymer. The ternary or higher copolymer term is applied to polymers formed from 3 or more polymer formers, for example – EPDM, polyethylene terephthalate-isophthalate. Within this hierarchy there are concepts for defining types of block copolymer, graft copolymer and grafting polymer former, star, alternating and random copolymer.

The Oligomer term will be applied to alkylene oxides containing 5 - 9 repeat units and to other polymers containing 2 - 9 repeat units.

There are two terms used for handling macromers - Macromer as modified polymer and Macromer as polymer former.

The concept for Minor component is only applicable to polymer formers within a co- polymer.

The Modifying agent term is used when a specific modifying agent is used to modify a polymer; the term Atom(s) incorporated in polymer by modification is used to indicate the changed chemical structure of the modified polymer.

This facet also contains terms for Thermoplastic and Thermosetting. These terms will be applied when this is the only information available about the polymer or resin or when it is important. They will not be applied everytime a polymer is indexed.

Each polymeric component will have either a Polymer Descriptors or a Polymer Types code applied.

Polymer Descriptors

H0000 Homopolymer
"Polymer formed from a single polymer former"

H0011 Copolymer
"Polymer formed from >1 polymer former"
H0022 NT Binary copolymer
"Polymer formed from 2 polymer formers"
H0033 NT Ternary or higher copolymer
"Polymer formed from 3 or more polymer formers"
H0044 NT Block copolymer
UF Ordered cocondensate
H0055 NT A-B type block copolymer
H0066 NT A-B-A type block copolymer
H0077 NT Block copolymer type, other
H0088 NT Graft copolymer
H0099 NT Star polymer
H0102 NT Alternating copolymer
"Not used for simple condensates"
UF Ordered copolymer
H0113 NT Random copolymer
"Only used when stated to be such"

H0351 Dendrimer (04)
"Not used for hyperbranched polymer. For hyperbranched use B5005 Degree of branching."

H0124 Elastomer
UF Rubber
H0135 NT Thermoplastic elastomer

H0362 End functional polymer (04)
"Used for any polymer with end functional (i.e. reactive) group(s) that would not normally be present. The end functional groups must be for use or potential use in a reaction. In addition end modification will be indexed, if applicable. Examples include vinyl terminated polysiloxane and hydroxy terminated polybutadiene. The following examples would not be indexed as End functional polymer - carboxy terminated polyester, polyether polyols, NCO terminated polyurethane."
H0373 NT Amine end functional polymer (04)
"Polymer-C-N(CH2)2"
H0384 NT Carboxy end functional polymer (04)
"Including salts. Polymer-CO2H!"
H0395 NT C-C unsaturation end functional polymer (04)
"Polymer-C=C or Polymer-C ≡ C"
H0408 NT Epoxy end functional polymer (04)
"Including any group containing an epoxy group"
H0419 NT Hydroxy end functional polymer (04)
"Polymer-C-OH"
H0420 NT Other end functional polymer (04)
SA Macromer as modified polymer
SA Telechelic polymer

H0146 Grafting polymer former
UF Grafting monomer

H0157 Atoms(s) incorporated in polymer by modification
"Chemical aspects are applied with this term to represent the atoms incorporated"
SA Modifying agent

H0168 Head-to-head polymer

H0179 Ladder polymer

H0180 Living polymer

H0191 Macromer as modified polymer
"Oligomer or polymer modified to incorporate polymerisable functional group(s)"
SA End functional polymer

H0204 Macromer as polymer former
"Polymer former containing oligomer or polymer within its structure"

H0215 Minor component
"Only used for polymer former component in copolymer, maximum 10%"

H0226 Modifying agent
SA Atoms(s) incorporated in polymer by modification

H0237 Oligomer
"For polyalkylene oxides 5-9 repeat units are regarded as oligomer; for other polymers 2-9 repeat units"
H0248 NT Dimer

H0259 Prepolymer

H0260 Polymer containing >1 Polymer Type
"Excludes polymers formed by reaction through C-C unsaturation"

H0271 Polymer former
UF Condensant
UF Monomer

H0282 Polymer with structure tailored for property

H0293 Ring in backbone of polymer

H0339 Tapered polymer (96)
"Used when the relationship between components in a copolymer changes in a regular manner - for example the content of one monomer increasing and the other decreasing. Not used to define the shape of an article or fibre."
SA Block copolymer
SA Tapered fibre [shape & form]

H0340 Telechelic polymer (96)
"Used for telechelic polymers, pseudo-telechelic polymers and telechels when stated. Telechelic polymers are those with specifically introduced reactive or functional end groups, such as Hydroxy-telechelic polybutadiene, Furan-terminated telechels. These polymers are directly useable, without further modification, in their intended application."
SA End functional polymer
SA Macromer as modified polymer
SA Macromer as polymer former
SA Living polymer

H0306 Telomer

H0317 Thermoplastic

H0328 Thermosetting

Polymer Formers

This facet contains specific terms and generic terms for polymer formers. Throughout the hierarchies we have used the term polymer former to cover both monomers and condensants.

These terms are arranged hierarchically with generic terms represented by Gnnnn codes and Specific Compound Numbers Rnnnnn used for the specific compounds.

The basic hierarchical structure is:-

Organic

- acetylenic
- monoolefinic
- diolefinic
- triolefinic and higher
- saturated

Inorganic

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Vinyl aromatics monoolefinic which has been coded, should be searched using G0102-R. Searching G0102 will retrieve all references - indexed and autoposted.

See Also (SA) terms which relate to concepts in a different facet have the facet indicated in brackets after the term.

Polymer former concepts will be indexed for all polymers where the polymer formers are known, but they will not be assumed.

The Polymer Formers also autogenerate the relevant Chemical Aspects. This enables very generic searching to be carried out, for example a chlorine containing diolefinic compound. For a complete list of autogenerated aspects see the Polymer Indexing Reference Manual.

The Specific Compound Numbers each have a finite set of Chemical Aspects, the generic terms autogenerate only those Chemical Aspects which define the common structural features of the hierarchy.

The Gnnnn codes (generic terms) can be used with Chemical Aspects, all of which should be linked together at level 1 for searching.

In 1993 when the Polymer Indexing system was introduced, the Specific Compound Numbers Rnnnnn used for the specific compounds, were based on an existing set of codes used with the Chemistry Fragmentation coding system and now found in the Derwent Chemistry Resource. This set of codes has expanded to such a degree that the original format (Rnnnnn) is now exhausted and the Chemistry Specific Compound Numbers currently being introduced are now completely alpha numeric, although they are still 6 characters beginning with 'R', for example RA3QZC for Lauryl acrylate. In the Polymer Indexing system we have decided to keep to the original format of Specific Compound Numbers - Rnnnnn, but now autopost the Chemistry SCN where this is different.

Indexing Conventions:

Acrylic fibres (with no further chemical definitions) indexed as G0475.

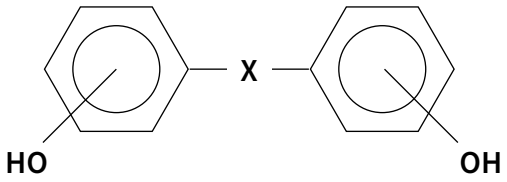
Carboxy vinyl polymer indexed as acrylic acid - polyallyl sucrose binary copolymer.

Perfluoroethers from tetrafluoroethylene and oxygen - indexed as tetrafluoroethylene polymer former and oxygen polymer former (G2346 O-).

Polyaluminoxanes from trialkylaluminium and water - indexed as trialkylaluminium polymer former and water polymer former (G2346 R01740).

Styrene-ethylene-butene-styrene block copolymer will be indexed as hydrogenated styrene-butadiene block copolymer, unless actually formed from styrene, ethylene and butene. Likewise, styrene-ethylene-propylene-styrene block copolymer will be indexed as hydrogenated styrene-isoprene block copolymer, unless otherwise stated.

Bisphenols are defined as having the structure below:-



Where X is a single bond or group not fused to either benzene ring and the benzene rings may be substituted.

Polymer Formers

G0000 Acetylenic

R00327 NT Acetylene
UF Ethyne
G0011 NT Acetylenic, other

G0022 Monoolefinic

G0033 NT (Cyclo)aliphatic monoolefinic hydrocarbons
G0044 NT Aliphatic monoolefinic hydrocarbons
UF Alkenes
R00326 NT Ethylene
UF Ethene
R00964 NT Propylene
UF Propene
G0055 NT Butenes (gen)
"Used when no specific isomer given"
R00805 NT Butene-1
R00807 NT Butene-2
R00966 NT Isobutylene
R02047 NT Pentene-1
R02043 NT Hexene-1
R02046 NT Heptene-1
R00936 NT Octene-1
R02045 NT Decene-1
R24026 NT Octadecene-1
R02054 NT Methylbutene-1, 3-
UF Isopentene-1
R15485 NT Methylpentene-1, 4-
G0066 NT Straight chain aliphatic monoolefinic hydrocarbon, other
G0077 NT Branched chain aliphatic monoolefinic hydrocarbon, other
G0088 NT Cycloaliphatic monoolefinic hydrocarbons
R01289 NT Norbornene-2
UF Bicyclo(2.2.1)hept-2-ene
R01140 NT Cyclopentene
G0099 NT Cycloaliphatic monoolefinic hydrocarbon, other
G0102 NT Vinyl aromatics monoolefinic
R00708 NT Styrene
G0113 NT Vinyl toluenes (gen)
"Used when no specific isomer given"
R01410 NT Vinyl toluene, 2-
R00725 NT Vinyl toluene, 3-
R01417 NT Vinyl toluene, 4-
R00673 NT alpha-Methyl styrene
G0124 NT Halomethyl styrenes (gen)
G0135 NT Chloromethyl styrene "Mono substituted; all isomers"
G0146 NT Bromomethyl styrene "Mono substituted; all isomers"
G0157 NT Butyl styrene, t-
"Mono substituted; all isomers"
G0168 NT Vinylbenzyl trimethyl ammonium chloride
"Mono substituted; all isomers"

R01416 NT Cinnamic acid
G0179 NT Vinyl phenol
"Mono substituted; all isomers"
G0180 NT Amino styrene
"Mono substituted; all isomers"
G0191 NT Styrene sulphonic acid + salts
"Mono substituted; all isomers"
UF Styrene sulfonic acid + salts
G4002 NT Styrene sulphonic acid (96)
"Mono substituted; all isomers"
UF Styrene sulfonic acid
G0204 NT Halo vinyl aromatics
"Direct halo-ring bond only"
G0215 NT Chloro vinyl aromatics
"Direct chloro-ring bond only"
G0226 NT Halo vinyl aromatics, other
"Direct halo-ring bond only"
G0237 NT Vinyl aromatic monoolefinic, other
G0248 NT Non-vinyl aromatics monoolefinic
R01186 NT Coumarone
UF Benzofuran
R00614 NT Indene
G0259 NT Non-vinyl aromatic monoolefinic, other
G0260 NT Acrylics monoolefinic
G0271 NT Acrylic acids monoolefinic
"Including salts thereof"
G0282 NT Acrylic acid + salts
"Monoolefinic only"
R00446 NT Acrylic acid
R24001 NT Sodium acrylate
R24000 NT Potassium acrylate
G0293 NT Acrylic acid salt, other
G0306 NT Methacrylic acid + salts
"Monoolefinic only"
R00460 NT Methacrylic acid
G0317 NT Crotonic acid + salts
"Monoolefinic only"
G0328 NT Acrylic acid + salts, other
"Monoolefinic only: Excluding acrylic acid + salts, methacrylic acid + salts and crotonic acid + salts"
G0339 NT Acrylic esters monoolefinic
G0340 NT Acrylic acid esters monoolefinic
R00642 NT Methyl acrylate
R01126 NT Ethyl acrylate
R24081 NT Propyl acrylate, n- (96)
R24024 NT Isopropyl acrylate
G0351 NT Butyl acrylates (gen)
"Used when no specific isomer given"
R01130 NT Butyl acrylate, n-
R09390 NT Butyl acrylate, t-
R21978 NT Butyl acrylate, s-
R24029 NT Isobutyl acrylate

R00745 NT Ethylhexyl acrylate, 2-
UF Isooctyl acrylate
R24055 NT Hexyl acrylate, n-
R24091 NT Lauryl acrylate (04)
R24092 NT Stearyl acrylate (04)
R24093 NT Cyclohexyl acrylate (04)
R24094 NT Isobornyl acrylate (04)
R24095 NT Benzyl acrylate (04
R00799 NT Glycidyl acrylate
G0362 NT Hydroxyalkyl acrylates
R01454 NT Hydroxyethyl acrylate, 2-
R24023 NT Hydroxypropyl acrylate, 2-
R21505 NT Dimethylaminoethyl acrylate (04)
R24096 NT Acryloxypropyl trimethoxy silane, 3- (04)
R24105 NT Isocyanatoethyl acrylate, 2- (04)
R24022 NT Phenoxyethyl acrylate
G4079 NT Adamantyl acrylates (gen) (04)
"Optionally substituted"
R24106 NT Adamantyl acrylate (04)
G4080 NT Other adamantyl acrylate (04)
G0373 NT Acrylic acid ester monoolefinic, other"
G0384 NT Methacrylic acid esters monoolefinic
R00479 NT Methyl methacrylate
R00653 NT Ethyl methacrylate
R24082 NT Propyl methacrylate, n- (96)
R24021 NT Isopropyl methacrylate
G0395 NT Butyl methacrylates (gen)
"Used when no specific isomer given"
R00657 NT Butyl methacrylate, n-
R11165 NT Butyl methacrylate, t-
R24020 NT Butyl methacrylate, s-
R21453 NT Isobutyl methacrylate
R17881 NT Ethylhexyl methacrylate, 2-
UF Isooctyl methacrylate
R24097 NT n-Hexyl methacrylate (04)
R24019 NT Lauryl methacrylate
R22940 NT Stearyl methacrylate
R24017 NT Cyclohexyl methacrylate
R24016 NT Isobornyl methacrylate
R24007 NT Benzyl methacrylate
R00800 NT Glycidyl methacrylate
G0408 NT Hydroxyalkyl methacrylate
R01463 NT Hydroxyethyl methacrylate, 2-
R24015 NT Hydroxypropyl methacrylate, 2-
R01606 NT Dimethylaminoethyl methacrylate
R05257 NT Methacryloxypropyl trimethoxysilane, 3-
SA Methacrylato silanes (gen) [chemicals]
R24054 NT Isocyanatoethyl methacrylate, 2-
R24098 NT Phenoxyethyl methacrylate (04)
G4091 NT Adamantyl methacrylates (gen) (04)
"Optionally substituted"
R24099 NT Adamantyl methacrylate (04)

G4104 NT Other adamantyl methacrylate (04)
G0419 NT Methacrylic acid ester monoolefinic, other
G0420 NT alpha-Cyanoacrylic acid esters monoolefinic
G0431 NT alpha-Haloacrylic acid esters monoolefinic
G0442 NT Acrylic ester monoolefinic, other
G0453 NT Acrylic amides monoolefinic
R00444 NT Acrylamide
R00459 NT Methacrylamide
R07701 NT Methylolacrylamide, N-
R21733 NT Dimethylacrylamide, N,N-
R03538 NT Acrylamido-2-methylpropanesulphonic acid, 2-"
UF Acrylamido-2-methylpropanesulfonic acid, 2-
G4013 NT Acrylamido-2-methylpropanesulphonic salts, 2- (96)
UF Acrylamido-2-methylpropanesulfonic salts, 2-"
R18902 NT Diacetone acrylamide
G0464 NT Acrylic amide monoolefinic, other
G0475 NT Acrylic nitriles monoolefinic
R00817 NT Acrylonitrile
UF Vinyl cyanide
R01078 NT Methacrylonitrile
R01468 NT Vinylidene cyanide
G0486 NT Acrylic nitrile monoolefinic, other
G0497 NT Acrylic aldehydes monoolefinic
R00808 NT Acrolein
R00433 NT Methacrolein
G0500 NT Acrylic aldehyde monoolefinic, other
G0511 NT Acrylic acid halides monoolefinic
R01453 NT Acryloyl chloride
R01466 NT Methacryloyl chloride
G0522 NT Acrylic acid halide monoolefinic, other
G0533 NT Acrylic monoolefinic, other
G0544 NT Vinyl halides
R01404 NT Vinyl bromide
R00338 NT Vinyl chloride
R00339 NT Vinyl fluoride
R24014 NT Vinyl iodide
G0555 NT Vinylidene halides
R01405 NT Vinylidene bromide
R00360 NT Vinylidene chloride
R00363 NT Vinylidene fluoride
R24013 NT Vinylidene iodide
G0566 NT Vinyl carboxylic esters monoolefinic
R00835 NT Vinyl acetate
R22506 NT Vinyl propionate
R01038 NT Vinyl butyrate
R00935 NT Vinyl stearate
G0577 NT Vinyl carboxylic ester monoolefinic, other
G0588 NT Vinyl ethers monoolefinic
R00824 NT Methyl vinyl ether
R00892 NT Ethyl vinyl ether
R14573 NT Butyl vinyl ether, n-
R24012" NT Isobutyl vinyl ether

G0599 NT Vinyl ether monoolefinic, other
G0602 NT Vinyl thioethers monoolefinic
G4137 NT Vinyl caprolactones (04)
G0613 NT Vinyl pyridines (gen)
"Optionally substituted; used when no specific isomer given"
R00724 NT Vinyl pyridine, 2-
R00709 NT Vinyl pyridine, 4-
G0624 NT Vinyl carbazoles
G0635 NT Vinyl pyrrolidones
G0646 NT Vinyl phthalimides
R01619 NT Vinyl isocyanate
G0657 NT Vinyl caprolactams
G0668 NT Vinyl imidazoles
G4148 NT Vinyl amides, N- (04)
R11746 NT Vinyl acetamide, N- (04)
R08072 NT Vinyl formamide, N-
G4159 NT Vinyl amide, N- other (04)
G0679 NT Unsaturated ketones monoolefinic
R00438 NT Vinyl methyl ketone
R21842 NT Methyl isopropenyl ketone
G0680 NT Unsaturated ketone monoolefinic, other
R24011 NT Vinyl sulphonic acid
UF Vinyl sulfonic acid
G0691 NT Vinyl silanes monoolefinic
"Used when no specific vinyl silane given"
R05399 NT Vinyl triacetoxy silane
R00390 NT Vinyl trichloro silane
R05400 NT Vinyl triethoxy silane
R05402 NT Vinyl trimethoxy silane
R05401 NT Vinyl tris(2-methoxyethoxy) silane
G0704 NT Vinyl silane monoolefinic, other
G0715 NT (Meth)allyl derivatives monoolefinic
R01399 NT Allyl acetate
R00820 NT Allyl alcohol
R00815 NT Allyl amine
R00810 NT Allyl chloride
G0726 NT Allyl ethers
R10657 NT Allyl glycidyl ether
R24010 NT Allyl sulphonic acid
UF Allyl sulfonic acid
G0737 NT Allyl monoolefinic, other
R24009 NT Methallyl sulphonic acid
UF Methallyl sulfonic acid
G0748 NT Methallyl monoolefinic, other
R00975 NT Tetrafluoroethylene
R00458 NT Chlorotrifluoroethylene
R00976 NT Hexafluoropropylene
R06317 NT Trifluoroethylene
G0759 NT Perfluoro(alkyl vinyl ether)
R01083 NT Tetrachloroethylene
G0760 NT Dicarboxylic derivatives monoolefinic
R00901 NT Maleic acid

R00843		NT	Maleic anhydride
R05167		NT	Dioctyl maleate
R06723		NT	Phenylmaleimide, N-
R00902		NT	Fumaric acid
R00654		NT	Itaconic acid
R10232		NT	Itaconic anhydride (96)
R01288		NT	Citraconic acid
			UF Methyl maleic acid
R13156		NT	Citraconic anhydride (96)
			UF Methyl maleic anhydride
R05342		NT	Tetrahydrophthalic acid
R00516		NT	Tetrahydrophthalic anhydride
G0771		NT	Methyl tetrahydrophthalic anhydride
		"All isomers"	
R24008		NT	Nadic acid
			UF Carbic acid
R01094		NT	Nadic anhydride
			UF Carbic anhydride
G0782		NT	Methyl nadic anhydride
		"All isomers"	
R00968		NT	Chlorendic acid
R00967		NT	Chlorendic anhydride
G0793		NT	Dicarboxylic derivative monoolefinic, other
R00954	NT	Oleic acid	
G0806	NT	Monoolefinic, other	

G0817 Diolefinic

G0828	NT	Conjugated aliphatic diolefinic	
R00806		NT	Butadiene
R00429		NT	Isoprene
R01079		NT	Chloroprene
			UF Chloro-1,3-butadiene, 2-
R01299		NT	Piperylene
			UF Pentadiene, 1,3-
G0839		NT	Conjugated aliphatic diolefinic, other
G0840	NT	Aromatic hydrocarbons diolefinic	
G0851		NT	Divinyl benzenes
		"All isomers"	
G0862		NT	Aromatic hydrocarbon diolefinic, other
G0873	NT	Esters, non-conjugated diolefinic	
R01479		NT	Allyl acrylate
R24006		NT	Methallyl acrylate
R00637		NT	Allyl methacrylate
R24005		NT	Methallyl methacrylate
G0884		NT	Diallyl phthalates (gen)
R01098			NT Diallyl phthalate, 1,2-
R01592		NT	Ethylene glycol diacrylate
			UF Glycol diacrylate
R00658		NT	Ethylene glycol dimethacrylate
			UF Glycol dimethacrylate
R01595		NT	Diethylene glycol dimethacrylate
			UF Diglycol dimethacrylate

R24079 NT Diethylene glycol diacrylate
R05378 NT Triethylene glycol dimethacrylate
G0895 NT Butanediol diacrylates (gen)
"Used when no specific isomer given"
R24004 NT Butanediol diacrylate, 1,4-
R03629 NT Butanediol diacrylate, 1,3-
R01611 NT Butanediol dimethacrylate, 1,4-
R08320 NT Hexanediol diacrylate, 1,6-
R24003 NT Hexanediol dimethacrylate, 1,6-
R15368 NT Diethylene glycol bis(allyl carbonate)
G0908 NT Non-conjugated ester diolefinic, other
G0917 NT Cycloaliphatic hydrocarbons diolefinic
R01353 NT Cyclopentadiene
R00416 NT Dicyclopentadiene
R01608 NT Ethylidene norbornene
UF Ethylidene bicyclo(2.2.1)hept-2-ene, 5-
G0920 NT Cycloaliphatic hydrocarbon diolefinic, other
G0931 NT Non-conjugated aliphatic hydrocarbons diolefinic
R01402 NT Hexadiene, 1,4-
G0942 NT Non-conjugated aliphatic hydrocarbon diolefinic, other
R08306 NT Diallyl dimethyl ammonium chloride
UF DADMAC
R08767 NT Methylene bisacrylamide
R13150 NT Acrylic anhydride
R13149 NT Methacrylic anhydride
G0953 NT Bismaleimides
G0964 NT Diolefinic, other

G0975 Triolefinic and higher
G4115 NT Tri- or higher acrylates (04)
R05388 NT Trimethylolpropane triacrylate
R05389 NT Trimethylolpropane trimethacrylate
R21451 NT Pentaerythritol triacrylate
R17444 NT Pentaerythritol tetraacrylate (04)
R15746 NT Dipentaerythritol pentaacrylate (04)
R15747 NT Dipentaerythritol hexaacrylate (04)
G4126 NT Tri- or higher acrylates, other (04)
R05364 NT Triallyl cyanurate
R00733 NT Triallyl isocyanurate
UF Triallyl isocyanuric acid, N, N', N''-
R12852 NT Tetramethyltetravinylcyclotetrasiloxane
G2357 NT Polyallyl sucrose
G0986 NT Triolefinic or higher, other

G0997 Alcohols
"Excluding phenols"
G1003 NT Monohydroxy alcohols
R00660 NT Furfuryl alcohol
G1014 NT Monohydroxy alcohol, other
SA Monophenols
G1025 NT Dihydroxy alcohols
R00822 NT Ethylene glycol
UF Glycol

R00930 NT Diethylene glycol
UF Diglycol
R00947 NT Triethylene glycol
R00952 NT Tetraethylene glycol
R00137 NT Propylene glycol, 1,2-
R01300 NT Propane diol, 1,3-
UF Trimethylene glycol
R07332 NT Dipropylene glycol
R22882 NT Tripropylene glycol
G1036 NT Butane diols (gen)
"Linear unbranched chains only; used when no specific isomer given"
R01390 NT Butane diol, 1,2-
R00831 NT Butane diol, 1,3-
R00908 NT Butane diol, 1,4-"
G1047 NT Hexane diols (gen)
"Linear unbranched chains only"
R01422 NT Hexane diol, 1,6-
UF Hexamethylene glycol
R15351 NT Hexane diol, 2,5-
R01075 NT Neopentyl glycol
UF Dimethyl-1,3-propane diol, 2,2-
R00770 NT Cyclohexyl dimethanol, 1,4-
UF Dimethylol cyclohexane, 1,4-
R00469 NT Hydrogenated bisphenol A
UF Bis(4-hydroxycyclohexyl)propane, 2,2-
G1058 NT Alkylene oxide adducts of bisphenols
G1069 NT Dihydroxy alcohol, other
SA Diphenols
G1070 NT Polyhydroxy alcohols
R00113 NT Glycerol
UF Glycerine
R00972 NT Pentaerythritol
R00032 NT Sorbitol
R00420 NT Trimethylol propane
R05429 NT Tris(hydroxyethyl)isocyanurate
UF Tris(2-hydroxyethyl)-s-triazine-2,4,6-trione, 1,3,5-
G1081 NT Polyhydroxy alcohol, other
SA Polyphenols
SA Phenols

G1092 Phenols
G1105 NT Monophenols
R00868 NT Phenol
G1116 NT Cresols (gen)
"Used when no specific isomer given"
R00620 NT Cresol, 2-
R00846 NT Cresol, 3-
R00787 NT Cresol, 4-
G1127 NT Xylenols (gen)
R01387 NT Xylenol, 2,6-
R01110 NT Naphthol, 2-
G1138 NT Monohydric phenol, other

G1149 NT Diphenols
R00851 NT Resorcinol
R01041 NT Hydroquinone
R05362 NT Methylhydroquinone
UF Toluhydroquinon
R01006 NT Pyrocatechol
UF Catechol
UF Dihydroxybenzene, 1,2-
G1150 NT Bisphenols (gen)
R06529 NT Dihydroxybiphenyl, 4,4'-
UF Biphenol, 4,4'-
G1161 NT Isopropylidene bisphenols
R00470 NT Bisphenol A
UF Bis(4-hydroxyphenyl)propane, 2,2-
R03113 NT Tetrabromobisphenol A, 3,3',5,5'-
UF Bis(3,5-dibromo-4-hydroxyphenyl)propane, 2,2-
G1172 NT Isopropylidene bisphenol, other
R13033 NT Bisphenol AF (96)
UF Bis(4-hydroxyphenyl)hexafluoropropane, 2,2-
G1183 NT Bisphenol ethers
G1194 NT Bisphenol ketones
G1207 NT Bisphenol methanes
R12487 NT Bisphenol F
UF Bis(4-hydroxyphenyl)methane
G1218 NT Bisphenol methane, other
G1229 NT Bisphenol sulphides
UF Bisphenol sulfides
G1230 NT Bisphenol sulphones
UF Bisphenol sulfones
R00473 NT Bisphenol S
UF Bis(4-hydroxyphenyl)sulphone
G1241 NT Bisphenol sulphone, other
G1252 NT Bisphenol, other
G1263 NT Diphenol, other
G1274 NT Polyphenols
R00539 NT Pyrogallol
UF Trihydroxybenzene, 1,2,3-
G1285 NT Polyphenol, other

G1296 Carbonates
R00645 NT Ethylene carbonate
UF Dioxolone
R00844 NT Propylene carbonate
UF Methyl-1,3-dioxolan-2-one, 4-
R21644 NT Diethyl carbonate
R07250 NT Dimethyl carbonate
R06918 NT Diphenyl carbonate
G1309 NT Carbonate, other

G4024 Carboxylic derivatives (96)
G1310 NT Carboxylic acids
G1321 NT Polymerised fatty acids
UF Dimer acids

G1332 NT Monobasic carboxylic acids
R03993 NT Acetoxybenzoic acid, 4-
G1343 NT Dibasic carboxylic acids
R01152 NT Oxalic acid
R00900 NT Succinic acid
R00920 NT Glutaric acid
UF Propane dicarboxylic acid, 1,3-
R01060 NT Adipic acid
UF Hexanedioic acid
UF Butane dicarboxylic acid, 1,4-
R00923 NT Pimelic acid
UF Pentane dicarboxylic acid, 1,5-
R01302 NT Suberic acid
UF Hexane dicarboxylic acid, 1,6-
R01059 NT Azelaic acid
UF Heptane dicarboxylic acid, 1,7-
UF Nonanedioic acid”
R00924 NT Sebacic acid
UF Octane dicarboxylic acid, 1,8-
R07786 NT Dodecanedioic acid
R00554 NT Phthalic acid
UF Benzene dicarboxylic acid, 1,2-
R01023 NT Isophthalic acid
UF Benzene dicarboxylic acid, 1,3-
R00702 NT Terephthalic acid
UF Benzene dicarboxylic acid, 1,4-
R01489 NT Naphthalene dicarboxylic acid, 2,6-
UF Naphthalic acid, 2,6-
G1354 NT Sulphoisophthalic acid + salts
UF Sulfoisophthalic acid + salts
R10610 NT Sulphoisophthalic acid, 5-sodium salt
UF Sulfoisophthalic acid, 5-sodium salt
G1365 NT Dibasic carboxylic acid, other
G1376 NT Polybasic carboxylic acids
R01328 NT Trimellitic acid
UF Benzene tricarboxylic acid, 1,2,4-
R00555 NT Pyromellitic acid
UF Benzene tetracarboxylic acid, 1,2,4,5-
G1387 NT Polybasic carboxylic acid, other
G1398 NT Carboxylic anhydrides
G1401 NT Dibasic carboxylic anhydrides
R00842 NT Succinic anhydride
R00515 NT Hexahydrophthalic anhydride
UF Cyclohexane dicarboxylic anhydride
R08834 NT Methylhexahydrophthalic anhydride
R00517 NT Phthalic anhydride
R05336 NT Tetrabromophthalic anhydride
R05339 NT Tetrachlorophthalic anhydride
G1412 NT Dibasic carboxylic anhydride, other
G1423 NT Polybasic carboxylic anhydrides
R01363 NT Trimellitic anhydride
R00556 NT Pyromellitic dianhydride

R05043		NT	Benzophenone tetracarboxylic dianhydride, 3,3',4,4'-
R12068		NT	Biphenyl tetracarboxylic dianhydride
R19233		NT	Hexafluoroisopropylidene diphthalic anhydride, 4,4'-(96)
		UF	Isobenzofurandione, 5,5'-(2,2,2-trifluoro-1-trifluoromethyl)- hylidene) bis-1,3-
R24083		NT	Oxydiphthalic dianhydride, 4,4'- (96)
		UF	Diphenyl ether tetracarboxylic acid dianhydride
G1434		NT	Polybasic carboxylic anhydride, other
G1445	NT	Carboxylic esters	
G1456		NT	Dibasic carboxylic esters
R01002		NT	Dimethyl terephthalate
G1467		NT	Dibasic carboxylic ester, other
G1478	NT	Carboxylic acid halides	
G1489		NT	Dibasic carboxylic acid halides
R03807		NT	Phthaloyl chloride
R03806		NT	Isophthaloyl chloride
R00701		NT	Terephthaloyl chloride
G1490		NT	Dibasic carboxylic acid halide, other

G4035 Acetals (96)

R00917	NT	Trioxane
R24025	NT	Tetraoxacin
R01435	NT	1,3-Dioxolane (96)
R12337	NT	1,3-Dioxane (96)
G4046	NT	Acetal, other (96)

G1503 Aldehydes

R00001	NT	Formaldehyde"
R00343	NT	Acetaldehyde
R00823	NT	Glyoxal
R00927	NT	Glutaraldehyde
R00715	NT	Benzaldehyde
R00661	NT	Furfuraldehyde
	UF	Furfural
G1514	NT	Aldehyde, other

G1525 Ketones

R00272	NT	Acetone
	UF	Dimethylketone
	UF	Propanone, 2-
R03599	NT	Hexafluoroacetone
R00437	NT	Methyl ethyl ketone
	UF	MEK
G1536	NT	Ketone, other

G1547 Ketenes

R01271	NT	Ketene"

G1558 Epoxides

R00351	NT	Ethylene oxide
	UF	Oxirane
R00370	NT	Propylene oxide
G1569	NT	Butylene oxide
		"All epoxide isomers"
R05070	NT	Butyl glycidyl ether

R00638 NT Styrene oxide
R10004 NT Hexafluoropropylene oxide
G1570 NT Epihalohydrins
R00798 NT Epichlorohydrin
G1581 NT Epoxide, other

G1592 Cyclic ethers
G1605 NT Oxacyclobutanes (gen)
R11352 NT Bis(chloromethyl)oxacyclobutane
UF Bis(chloromethyl)oxetane, 3,3-
G1616 NT Oxacyclobutane, other
R00896 NT Furan
R00895 NT Tetrahydrofuran
[G1627 NT Dioxanes (gen)] discontinued 199601
R01057 NT 1,4 Dioxane
G1638 NT Cyclic ether, other

G1649 Amines
G1650 NT Monoamines
R00232 NT Aniline
R01020 NT Dimethyl aniline, N,N-
R01176 NT Ethyleneimine
UF Aziridine
R00894 NT Pyrrole
G1661 NT Monoamine, other
G1672 NT Diamines
R00819 NT Ethylene diamine
R00905 NT Diaminobutane, 1,4-
UF Butane diamine, 1,4-
UF Tetramethylene diamine diamine
R01062 NT Hexane diamine, 1,6-
UF Hexamethylene diamine
G1683 NT Diaminodiphenyl ethers
R07859 NT Diaminodiphenyl ether, 3,4'- (96)
UF Oxydianiline, 3,4'-
R09389 NT Diaminodiphenyl ether, 4,4'-
UF Oxydianiline, 4,4'-
G1694 NT Diaminodiphenyl ether, other
G1707 NT Diaminodiphenyl ketones
G1718 NT Diaminodiphenyl methanes
R00737 NT Diaminodiphenyl methane, 4,4'-
UF Methylene dianiline, 4,4'-
G1729 NT Diaminodiphenyl methane, other
G1730 NT Diaminodiphenyl sulphides
UF Diaminodiphenyl sulfides
G1741 NT Diaminodiphenyl sulphones
UF Diaminodiphenyl sulfones
R00472 NT Diaminodiphenyl sulphone, 4,4'-
UF Bis(4-aminophenyl)sulphone
G1752 NT Diaminodiphenyl sulphone, other
G1763 NT Diaminobenzenes
"Optionally substituted"
R00624 NT Phenylene diamine, 2-

R00850 NT Phenylene diamine, 3-
R00793 NT Phenylene diamine, 4-
R00632 NT Diamino toluene, 2,4-
G1774 NT Diaminobenzene, other
G4057 NT Bis (aminophenoxy) benzenes (96)
UF Bis (1,3-aminophenoxy) benzene, 1,3-
UF Bis (1,4-aminophenoxy) benzene, 1,3-
G1785 NT Xylylene diamine
"All isomers"
R04047 NT Isophorone diamine
R01188 NT Triethylene diamine
UF Diazabicyclo(2.2.2)octane, 1,4-
R15286 NT Benzoguanamine
UF Diamino-6-phenyl-s-triazine, 2,4-"
G1796 NT Diamine, other
G1809 NT Polyamines
R00928 NT Diethylene triamine
R00925 NT Triethylene tetramine
R00727 NT Hexamethylene tetramine
UF Hexamine
UF Urotropin
R00859 NT Melamine
UF Triamino-s-triazine, 2,4,6-
G1810 NT Polyamine, other

G1821 Ureas
R00123 NT Urea

R01265 Hydantoin

R01264 Dicyanodiamide

R00956 Guanidine

G1832 Thioureas
R00235 NT Thiourea

G1843 Isocyanates
G1854 NT Diisocyanates
R01455 NT Hexamethylene diisocyanate
UF HMI
G1865 NT Trimethylhexamethylene diisocyanates
"All isomers"
R09192 NT Cyclohexane diisocyanate, 1,4-
R17132 NT Dicyclohexylmethane diisocyanate, 4,4'-
R01624 NT Isophorone diisocyanate
UF Trimethyl-1-isocyanatomethyl-5-isocyanato cyclohexane, 1,3,3-
G1876 NT Phenylene diisocyanate "All isomers"
G1887 NT Diphenylmethane diisocyanates (gen)
"Used when no specific isomer given"
UF MDI
R00735 NT Diphenylmethane diisocyanate, 4,4'-
UF MDI, 4,4'-
R20015 NT Diphenylmethane diisocyanate, 2,4'-

UF MDI, 2,4'-
G1898 NT Diphenylmethane diisocyanate, other
G1901 NT Naphthalene diisocyanates (gen)
R12045 NT Naphthalene diisocyanate, 1,5-
G1912 NT Toluene diisocyanates (gen)
"Used when no specific isomer given"
UF TDI
R01392 NT Toluene diisocyanate, 2,4-
UF TDI, 2,4-
R00574 NT Toluene diisocyanate, 2,6-
UF TDI, 2,6-
G1923 NT Xylylene diisocyanate
"All isomers"
G1934 NT Diisocyanate, other
G1945 NT Polyisocyanates
R24058 NT Polymethylenepolyphenylene polyisocyanate
UF PAPI
G1956 NT Polyisocyanate, other

G1967 Isothiocyanates

G1978 Halogen containing
R00345 NT Dichloromethane
UF Methylene chloride
G1989 NT Dichloroethanes (gen)
"Used when no specific isomer given"
R00359 NT Dichloroethane, 1,1-
R00811 NT Dichloroethane, 1,2-
UF Ethylene dichloride
R00621 NT Dichlorobenzene, 2-
R00789 NT Dichlorobenzene, 4-
R00471 NT Dichlorodiphenyl sulphone, 4,4'-
UF Dichlorodiphenyl sulfone, 4,4'-
R24002 NT Difluorodiphenyl ketone, 4,4'-
G1990 NT Halogen containing, other

G2006 Thioethers
R00898 NT Thiophene

G2017 Mercaptans
R00201 NT Mercaptoethanol

G2028 Sulphonic acids + salts
UF Sulfonic acids + salts
R00667 NT Benzene sulphonic acid
R00760 NT Toluene sulphonic acid
G2039 NT Naphthalene sulphonic acids
"Mono substituted; all isomers"
G2040 NT Naphthalene sulphonic acid salts
"Mono substituted; all isomers"
G2051 NT Sulphonic acid + salts, other

G2062 Amino acids
"Carboxylic acids only"

R00205	NT	Aminocaproic acid
R24048	NT	Aminoenanthic acid, 1,7-
R24051	NT	Aminoundecanoic acid, 1,11-
R00114	NT	Aspartic acid (04)
	UF	2-Amino-succinic acid
R01655	NT	Lysine (04)
	UF	2,6-Diamino-hexanoic acid
G2073	NT	Amino acid, other

G2084 Lactams

R00776	NT	Caprolactam
R24049	NT	Enantholactam,1,7-
R24050	NT	Undecanolactam, 1,11-
R08563	NT	Laurolactam
	UF	Dodecyl lactam
G2095	NT	Lactam, other

G2108 Hydroxy acids

"Carboxylic acids only"

R00448	NT	Glycolic acid
	UF	Hydroxyacetic acid
R00009	NT	Lactic acid
	UF	Hydroxypropionic acid, 2-
R01656	NT	Malic acid (04)
	UF	Hydroxybutanedioic acid
	UF	2-Hydroxy-succinic acid
R00540	NT	Tartaric acid
R00419	NT	Citric acid
	UF	Hydroxy-3,4-dicarboxy-n-butyric acid, 3-
G2119	NT	Hydroxybenzoic acid (gen)
		"Mono substituted; all isomers"
	UF	Salicylic acid
R06653	NT	Hydroxystearic acid, 12-
G2120	NT	Hydroxy acid, other

G2131 Lactones

R00644	NT	Butyrolactone"
R01295	NT	Caprolactone
R17298	NT	Glycolide
G4068	NT	Lactide (96)
	UF	Dimethyl-1,4-dioxane-2,5-dione, 3,6-
G2142	NT	Lactone, other

G2153 Hydroxyamines

R01131	NT	Ethanolamine
R00929	NT	Diethanolamine
R00743	NT	Triethanolamine
R00887	NT	Methylethanolamine, N-
	UF	(Methylamino)ethanol, 2-
R00834	NT	Dimethylethanolamine, N,N-
G2164	NT	Aminophenol
		"All isomers"
G2175	NT	Hydroxyamine, other

G2186 Vegetable oil

	UF	Drying oil	
	UF	Non-drying oil	
G2197	NT	Castor oil	
G2200	NT	Linseed oil	
G2211		NT	Soybean oil

G2222 Epoxidised vegetable oil

	UF	Epoxidized vegetable oil
	UF	Epoxidised drying oil
	UF	Epoxidised non-drying oil
G2233	NT	Epoxidised castor oil
G2244	NT	Epoxidised linseed oil
G2255	NT	Epoxidised soybean oil

G2266 Si compounds, organic

G2277	NT	Si compounds containing 1 Si	
R16680		NT	Dimethylchlorosilane
R00383		NT	Dimethyldichlorosilane
R24030		NT	Methyldichlorosilane
R00382		NT	Trimethylchlorosilane
R24031		NT	Methyldimethoxysilane
R23114		NT	Dimethyldimethoxysilane
R08655		NT	Methyltrimethoxysilane
R09202”		NT	Methyltriethoxysilane (96)”
R22582		NT	Butyl methyl dimethoxysilane, t-
R08200		NT	Diphenyldimethoxysilane
R00384		NT	Methyltrichlorosilane
G2288		NT	Si compounds containing 1 Si, other
G2299	NT	Si compounds containing 2 Si or more	
R04617		NT	Hexamethyldisilazane”
R07702		NT	Octamethylcyclotetrasiloxane
G2302		NT	Si compounds containing 2 Si or more, other
		SA	Tetramethyltetravinylcyclotetrasiloxane
	SA	Amino silanes (gen) [chemicals]	
	SA	Epoxy silanes (gen) [chemicals]	
	SA	Mercapto silanes (gen) [chemicals]	

G2313 Unsubstituted Hydrocarbons

G2324 Organic polymer former, other

G2335 Inorganic polymer formers

R13387	NT	Carbonic acid	
R00365	NT	Phosgene	
R01066	NT	Carbon dioxide	
R01423	NT	Carbon monoxide	
R01674	NT	Sulphur dioxide	
		UF	Sulfur dioxide
R01208	NT	Hydrazine	
R01518	NT	Sodium sulphide	
		UF	Sodium sulfide
R01740	NT	Water (96)	
G2346	NT	Inorganic polymer former, other	

Polymer Types

The Polymer Types facet is arranged with six very general concepts at the beginning and the remaining main terms and hierarchies then arranged alphabetically.The codes are of the format Pnnnn.

This facet contains concepts for defining the type of polymer; some of these concepts are very general and just define the polymer in terms of how it is formed, others are used to define the generic type, e.g. polyester, and others are very specific, such as ethylene vinyl acetate binary copolymer.

At least one of these Polymer Type codes or Polymer Descriptor code must be applied to every polymer indexed; often in practice several of the codes are applied to define a single polymer.

Within each hierarchy, the Narrower Terms (NT) will autopost the more generic term(s). When a Polymer Type term occurs in more than one hierarchy, such as Polyesteramide, it will autopost all relevant Broader terms. Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Acrylic polymer which has been coded should be searched using P0088-R. Searching P0088 will retrieve all references- indexed and autoposted.

The Polymer Type terms autogenerate only a few Chemical Aspects, such as Amide from Polyamide, but Chemical Aspects can be indexed and searched with the generic Polymer Types.

A complete list of these autogenerated codes is given in the Polymer Indexing Reference Manual.

Styrene-ethylene-butene-styrene block copolymer will be indexed as hydrogenated styrene- butadiene block copolymer, unless actually formed from styrene, ethylene and butene.

Likewise, styrene-ethylene-propylene-styrene block copolymer will be indexed as hydrogenated styrene-isoprene block copolymer.

A polymer with no single Polymer Type code applicable, e.g. polyetheramideketone, will have all the relevant main codes applied - in this case Polyether, Polyamide and Polyketone, along with the code H0260 for Polymer containing >1 Polymer Type.

Polymers such as Polyethylene will have all the relevant codes applied - in this case Polyolefin (Polymer Type), Polyethylene (Polymer Type), Ethylene (Polymer Former) and Homopolymer (Polymer Descriptor).

In the cases where a Polymer Type code fully defines a polymer by polymer former and polymer descriptor, then searching the Polymer Type code will give the same results as searching the Polymer Former(s) linked to the Polymer Descriptor. For example, P0099 Polyacrylic acid is equivalent to Acrylic acid Homopolymer R00446 (2) H0000.

Polymer Types

P0000 Polymer type (gen)
"Used when neither polymer type nor polymer former(s) are specified"

P0033 Polymer formed by reaction of C-C unsaturation with non C-C unsaturated functionality
"Includes bismaleimide with diamine, polyene with polythiol, and Nylon 3 from acrylamide. Also includes ethylene with CO"

P0044 Polymer formed by C-C bond formation
"Excludes polymers formed by reaction through C=C or C≡C unsaturation only and polyalkenamers. Includes phenol-terpene resins, polyxylylenes"

P0055 Polymer formed by heterocyclic ring opening
"Includes polypropylene oxide, polycaprolactone, polyethylene imine"

P0066 Polymer formed by (opt. substd.) hydrocarbon ring opening
UF Metathesis polymers

P0077 Polymer formed by cyclisation during polymerisatio

P0088 Acrylic polymer
P0099 NT Polyacrylic acid
P0102 NT Polyacrylonitrile
P0113 NT Polymethyl methacrylate
UF PMMA
P0124 NT Acrylonitrile - Butadiene BCP
P0135 NT Acrylonitrile - Butadiene rubber
UF Nitrile rubber
P1876 NT Acrylonitrile - Styrene - Acrylate CP (96)
UF ASA
P0146 NT Methacrylate - Butadiene - Styrene TCP
UF MBS
P0157 NT Styrene - Acrylonitrile BCP
UF SAN
P0168 NT Ethylene - Acrylic acid BCP
P0179 NT Ethylene - Methacrylic acid BCP
P0180 NT Ethylene - Ethyl acrylate BCP
P0191 NT Acrylonitrile - Butadiene - Styrene TCP
UF ABS
P0204 NT Vinyl chloride - Acrylonitrile BCP
P0215 NT Vinylidene chloride - Acrylonitrile BCP

P0226 Aldehyde and/or ketone resin (gen)
P0248 NT Acetal and/or ketal resin
P1887 NT Polyoxymethylene (96)
"Includes polyformaldehyde, polytrioxane and copolymers containing minor amounts of polymer former such as ethylene oxide"
P0259 NT Aminoplast
P0260 NT Melamine - Formaldehyde resin
P0271 NT Urea - Formaldehyde resi
P0282 NT Phenoplast
P0293 NT Phenol - Formaldehyde resin
P0306 NT Phenolic - Drying oil resin

SA Epoxidised phenolic resin
P0317 NT Aldehyde/ketone resin, other

P0328 Aliphatic conjugated diene polymers
P0339 NT Polybutadiene
P0340 NT Polychloroprene
UF Neoprene
P0351 NT Styrene - Butadiene BCP
P0362 NT Styrene - Butadiene rubber
P0373 NT Styrene - Butadiene block BCP
P0384 NT Hydrogenated Styrene - Butadiene block BCP
UF Styrene - Ethylene - Butene block CP
P0395 NT Styrene - Isoprene BCP
P0408 NT Styrene - Isoprene rubber
P0419 NT Styrene - Isoprene block BCP
P0420 NT Hydrogenated Styrene - Isoprene block BCP
UF Styrene - Ethylene - Propylene block CP
P0124 NT Acrylonitrile - Butadiene BCP
P0135 NT Acrylonitrile - Butadiene rubber
UF Nitrile rubber”
P0191 NT Acrylonitrile - Butadiene - Styrene TCP
UF ABS
P0146 NT Methacrylate - Butadiene - Styrene TCP
UF MBS
P0431 NT Isobutylene - Isoprene rubber
UF Butyl rubber

P0442 (Methylene) Arylene polymer
“Optionally substituted”
UF Polyxylylene
UF Xylok resin
P8106 NT Polyfluorenes (04)
P0453 NT Phenol - Aralkyl resin
“Includes reaction products of phenol(s) and xylylene derivatives”

P1967 (Bis)benzocyclobutene resins (96)

P0464 Epoxy resin
P1898 NT Bisphenol A type Epoxy resin (96)
“Use for epoxy resins with optionally ring substituted bisphenol A structure"
P0475 NT Bisphenol A diglycidyl ether epoxy resin
P1901 NT Bisphenol F type Epoxy resin (96)
“Use for epoxy resins with optionally ring substituted bisphenol F structure"
P0486 NT Cycloaliphatic epoxy resin
P0497 NT Epoxidised phenolic resin
UF Epoxidized phenolic resin

P0500 Fluoro resin
“Only used for general reference to Fluoro resins"
SA Ethylene - Chlorotrifluoroethylene BCP
SA Ethylene - Tetrafluoroethylene BCP
SA Polytetrafluoroethylene
SA Tetrafluoroethylene - Hexafluoropropylene BCP
SA Vinylidene fluoride - Hexafluoropropylene BCP

P0566 Friedel Crafts resin

P0577 Furan resin

P0588 Ionomer

P0599 Natural polymer

P0602 Petroleum resins
UF Hydrocarbon resin

P0613 Phenol - Cyclopentadiene resin
"Reaction product of Phenol(s) and (Di)cyclopentadiene(s)"

P0624 Phenol - Terpene resin
"Reaction product of Phenol(s) and Terpene(s)"

P1912 Polyalum(in)oxanes (96)
P1923 NT Polymethylalum(in)oxanes (96)

P0635 Polyamide
"Carboxylic amides only
UF Nylon
P1934 NT Saturated aliphatic polyamide (96)
P1945 NT Nylon 4 (96)
P0646 NT Nylon 6
P0657 NT Nylon 8
P0668 NT Nylon 11
P0679 NT Nylon 12
P0680 NT Nylon 4,6
P0691 NT Nylon 6,6
P0704 NT Nylon 6,10
P0715 NT Nylon 6,12
P0726 NT Nylon 6,6-6
P8117 NT Nylon 6/66/6T (04)
"Specific repeat units only, no other repeat units present."
P8128 NT Nylon 6/66/6I (04)
"Specific repeat units only, no other repeat units present."
P8139 NT Nylon 66/6T (04)
"Specific repeat units only, no other repeat units present."
P8140 NT Nylon 66/6I (04)
"Specific repeat units only, no other repeat units present."
P8151 NT Nylon 6I/6T (04)
"Specific repeat units only, no other repeat units present."
P8162 NT MXD6 (04)
"Specific repeat units only, no other repeat units present."
P0737 NT Aramid
P0748 NT Poly m-phenylene isophthalamide
UF Nomex
P0759 NT Poly p-phenylene terephthalamide
UF Kevlar
P0760 NT Polyesteramide
P0771 NT Polyamideimide

P0782 Polyanhydride

P1956 Polyazomethine (96)
"SRU containing -CH=N- in backbone"

P0793 Polybenzimidazole

P0806 Polybenzoxazol

P0817 Polybenzthiazol

P0828 Polycarbodiimide

P0839 Polyester
"Carboxylic esters only"

P0840 NT Alkyd resin
"Includes non-linear polyesters and those involving (non)drying oils"
P0862 NT Polycarbonate
P0873 NT Unsaturated polyester
"Linear polyester containing C=C or C ≡ C unsaturation"
P1978 NT Saturated polyester (96)
P0851 NT Polyarylate
P0884 NT Polyethylene terephthalate
UF PET
P8173 NT Polypropylene terephthalate (04)
UF PPT
UF Polytrimethylene terephthalate
P0895 NT Polybutylene terephthalate
UF PBT
P0908 NT Polyethylene terephthalate isophthalate
P1989 NT Polyethylene naphthalate (96)
"All isomers"
P1990 NT Poly 1,4-cyclohexane dimethylene terephthalate (96)
P0919 NT Polyester polyol
SA Polyesterurethane
P0760 NT Polyesteramide
P0920 NT Polyesterimide
P0931 NT Polyesterurethane
P0942 NT Polycarbonate-urethane
P0953 NT Polyetherester

P0964 Polyether

P0975 NT Polyalkylene ether
P8004 NT Polyethylene glycol (96)
"-(CH2-CH2-O-)n-"
UF Polyethylene oxide
P8015 NT Polypropylene glycol (96)
"-(-CH-(CH3)-CH2-O-)n-"
UF Polypropylene oxide
P8026 NT Polybutylene glycol (96)
"-(-C4H8O)n-"
P8037 NT Polybutylene oxide (96)
"-(-CH2-C(C2H5)-O-)n-"
P8048 NT Polytetramethylene glycol (96)
"-(-CH2-CH2-CH2-CH2-O-)n-"
UF Polytetrahydrofuran

P0986 NT Phenoxy resin
P0997 NT Polyphenylene ether
UF Polyphenylene oxide
P0953 NT Polyetherester
P1003 NT Polyetherimide
P1014 NT Polyetherketone
UF PEK
P1025 NT Polyetheretherketone
UF PEEK
P1036 NT Polyether polyol
SA Polyetherurethane
P1047 NT Polyethersulphone
UF Polyethersulfone
P1058 NT Polyetherurethane
P1069 NT Polyetherurethane from alkylene oxide copolymer

P1070 Polyhydantoin

P1081 Polyimide
P1092 NT Polyamic acid
P0771 NT Polyamideimide
P0920 NT Polyesterimide
P1003 NT Polyetherimide

P1105 Polyimine
P1116 NT Polyalkyleneimine
P1127 NT Polyaniline
"Optionally substituted"

P1138 Polyionene

P1149 Polyketone
P1014 NT Polyetherketone
UF PEK
P1025 NT Polyetheretherketone
UF PEEK

P1150 Polyolefin
P1161 NT Polyethylene
"Homopolymer of ethylene"
P1172 NT Low density polyethylene
"Homopolymer of ethylene with density 0.918 - 0.932 g/cc"
UF LDPE
P1183 NT Medium density polyethylene
"Homopolymer of ethylene with density 0.926 - 0.940 g/cc"
UF MDPE
P1194 NT High density polyethylene
"Homopolymer of ethylene with density > 0.940 g/cc"
UF HDPE
P1207 NT High molecular weight high density polyethylene
"Homopolymer of ethylene with density 0.941 - 0.965 g/cc and M.W. 200K-500K"
UF HMWHDPE
P1218 NT Ultra high molecular weight polyethylene
"Homopolymer of ethylene with M.W. >3M"

UF UHMWPE
P1229 NT Chlorinated polyethylene
P1230 NT Chlorosulphonated polyethylene
UF Chlorosulfonated polyethylene
P1241 NT Very low density polyethylene
“Copolymer of ethylene with other olefin(s) of density 0.890 - 0.915 g/cc"
UF VLDPE
UF Ultra low density polyethylene
UF ULDPE
P1252 NT Linear low density polyethylene
“Copolymer of ethylene with other olefin(s) of density 0.916 - 0.940 g/cc”
UF LLDPE
P0168 NT Ethylene - Acrylic acid BCP
P1263 NT Ethylene - Butene-1 BCP
P1274 NT Ethylene - Carbon monoxide BCP
P0522 NT Ethylene - Chlorotrifluoroethylene BCP
SA Fluoro resin
P0180 NT Ethylene - Ethyl acrylate BCP
P0179 NT Ethylene - Methacrylic acid BCP
P1285 NT Ethylene - PropyleneBCP
P1296 NT Ethylene - Propylene rubber
P1309 NT Ethylene - Propylene - Diene monomer
UF EPDM”
P0533 NT Ethylene - Tetrafluoroethylene BCP
P1310 NT Ethylene - Vinyl acetate BCP
SA Fluoro resin
P1321 NT Ethylene - Vinyl acetate - Vinyl alcohol
UF Ethylene - Vinyl acetate partially hydrolysed
P1332 NT Ethylene - Vinyl alcohol
UF Ethylene - Vinyl acetate hydrolysed
P1343 NT Polypropylene
P1354 NT Propylene - Vinyl chloride BCP
P0431 NT Isobutylene - Isoprene rubber
UF Butyl rubber

P8059 Polyorthoesters (96)
UF Polyorthocarbonates

P1365 Polyoxadiazole

P1376 Polyoxazoline

P1387 Polyoxazolidine

P1398 Polyparabanic acid

P8060 Polyphenylene vinylenes (96)
“Optionally ring substituted”

P1401 Polyphosphazine
UF Phosphonitrilic polymer

P1412 Polypyrrole
“Optionally substituted”

P1423 Polysilane
"Includes polycarbosilanes"

P1434 Polysilazane

P1445 Polysiloxane
P1456 NT Polydimethylsiloxane
"Optionally end group modified"
P8184 NT Polymethylvinylsiloxane (04)
"Optionally end group modified"
P8195 NT Polymethylphenylsiloxane (04)
"Optionally end group modified"
P8208 NT Polyhydrogenmethylsiloxane (04)
"Optionally end group modified"
P8219 NT Polysilsesquioxanes (04)
"Optionally substituted. Optionally end group modified."

P1467 Polysulphide
UF Polysulfide
UF Polythioether
P1478 NT Polyarylene sulphide
UF Polyarylene sulfide
UF Polyphenylene sulphide

P1489 Polysulphonamide
UF Polysulfonamide

P1490 Polysulphone
UF Polysulfone
P1047 NT Polyethersulphone
UF Polyethersulphone

P0511 Polytetrafluoroethylene
UF PTFE
SA Fluoro resin

P8071 Polythioester (96)
"SRU containing -C(S)-O- or -C(O)-S- or -C(S)-S- in backbone"

P1503 Polythiophene
"Optionally substituted"

P1514 Polythiourea

P1525 Polythiourethane

P1536 Polytriazine
"6-membered ring containing 3 N atoms"
P1547 NT Polycyanurate
UF Cyanurate resin
P1558 NT Polyisocyanurate

P1569 Polytriazole
"5-membered ring containing 3 N atoms
UF Polyaminotriazole
UF Polytriazoline

P1570 Polyurea
P1581 NT Polyurethaneurea

P1592 Polyurethane
P0931 NT Polyesterurethane
P0942 NT Polycarbonate-urethane
P1058 NT Polyetherurethane
P1069 NT Polyetherurethane from alkylene oxide copolymer
P1605 NT Polyurethane from HO-contg. polymer from C=C or C ≡ C polymer former P1616
P1616 NT Polyurethane from N-contg. polyol
P1627 NT Polyurethane NOT from isocyanate
P1638 NT Polyurethane from monomeric polyol
P1649 NT Polyurethane from >1 high M W polyol
P1581 NT Polyurethaneurea
P1650 NT Polyurethane, other

P1865 Polyvinyl acetals
P1661 NT Polyvinyl acetal
P1672 NT Polyvinyl butyral
P1683 NT Polyvinyl formal
SA Acetalised polymer [modified polymers]

P8082 Polyvinylamines (96)
P8093 NT Polyvinylamine (96)

P0544 Tetrafluoroethylene - Hexafluoropropylene BCP
SA Fluoro resin

P1694 Vinyl alcohol polymers
P1707 NT Polyvinyl alcohol
UF PVA
P1321 NT Ethylene - Vinyl acetate - Vinyl alcohol
UF Ethylene - Vinyl acetate partially hydrolysed
P1332 NT Ethylene - Vinyl alcohol
UF Ethylene - Vinyl acetate hydrolysed
P1718 NT Vinyl acetate - Vinyl alcohol
UF Vinyl acetate partially hydrolysed
P1729 NT Vinyl chloride - Vinyl acetate - Vinyl alcohol
UF Vinyl chloride - Vinyl acetate partially hydrolysed
P1730 NT Vinyl alcohol polymer, other
SA Hydrolysed polymer [modified polymer]
SA Hydroxy group incorporated polymer [modified polymers]

P1741 Styrenic polymers
P0191 NT Acrylonitrile - Butadiene - Styrene TCP
UF ABS
P1876 NT Acrylonitrile - Styrene - Acrylate CP (96)
UF ASA
P1763 NT High Impact Polystyrene
UF HIPS
P0146 NT Methacrylate - Butadiene - Styrene TCP
UF MBS
P1752 NT Polystyrene
P0157 NT Styrene - Acrylonitrile BCP

		UF	SAN
P0351	NT	Styrene - Butadiene BCP	
P0362		NT	Styrene - Butadiene rubber
P0373		NT	Styrene - Butadiene block BCP
P0384		NT	Hydrogenated Styrene - Butadiene block BCP
			UF Styrene - Ethylene - Butene block CP
P1774	NT	Styrene - Divinyl benzene BCP	
P0395	NT	Styrene - Isoprene BCP	
P0408		NT	Styrene - Isoprene rubber
P0419		NT	Styrene - Isoprene block BCP
P0420		NT	Hydrogenated Styrene - Isoprene block BCP
			UF Styrene - Ethylene - Propylene block CP
P1785	NT	Sulphonated Styrene - Divinyl benzene BCP	
		UF	Sulfonated Styrene - Divinyl benzene BCP

P1796 Vinyl chloride polymers

P1809	NT	Polyvinyl chloride	
		UF	PVC
P1354	NT	Propylene - Vinyl chloride BCP	
P0204	NT	Vinyl chloride - Acrylonitrile BCP	
P1729	NT	Vinyl chloride - Vinyl acetate - Vinyl alcohol	
		UF	Vinyl chloride - Vinyl acetate partially hydrolysed
P1832	NT	Vinyl chloride - Vinyl acetate	
P1843	NT	Vinyl chloride - Vinylidene chloride BCP	

P0555 Vinylidene fluoride - Hexafluoropropylene BCP

	SA	Fluoro resin

P1854 Polymer type, other

"Includes 'bucket chemistry' products"

Related terms from other facets:

H0260 Polymer from >1 Polymer Type [polymer descriptors]

Natural Polymers

This facet contains all the concepts for Natural Polymers.

These terms are arranged hierarchically in alphabetical order with generic terms represented by Gnnnn codes and Specific Compound Numbers Rnnnnn used for specific compounds.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched adding '-R' to the end of the code; thus Cellulose esters which has been indexed should be searched using G3645-R. Searching G3645 will retrieve all references - indexed and autoposted.

The Polymer Type code P0599 Natural Polymer will be autogenerated whenever a Natural Polymer code is indexed from this facet.

The Natural Polymers autogenerate the relevant Chemical Aspects, to enable generic searching to be carried out.

For mixed cellulose ether esters, such as hydroxyethyl cellulose phthalate, use the cellulose ether ester code (G3690) and Chemical Aspects e.g. E19 phthali-.

Natural Polymers

G3601 Bituminous polymers
G3612 NT Asphalt
UF Bitumen
R24072 NT Montan wax
R24071 NT Pitch

R01868 Lignin

R24088 Lignin sulphonic acid (96)
UF Lignin sulfonic acid

R24038 Lignin sulphonate salts (gen)
UF Lignin sulfonate salts (gen)

R24073 Natural rubber

R24074 Natural rubber isomers
UF Balata
UF Gutta percha

R24028 Polyhydroxybutyric acid

R24090 Polyhydroxyvaleric acid (96)

G3623 Polysaccharides
R24070 NT Agar
UF Agarose
R01866 NT Alginic acid
R07226 NT Alginic acid salts (gen)
R11203 NT Calcium alginate
R06725 NT Sodium alginate
R24036 NT Carrageenan
G3634 NT Cellulosics
R01852 NT Cellulose
R24078 NT Cotton
R24077 NT Regenerated cellulose
R24075 NT Cellophane
R24076 NT Viscose
UF Rayon
G3645 NT Cellulose esters
R01853 NT Cellulose acetate
R17001 NT Cellulose diacetate
R17002 NT Cellulose triacetate
R01854 NT Cellulose acetate butyrate
UF CAB
R16917 NT Cellulose acetate phthalate (96)
R01855 NT Cellulose acetate propionate (96)
UF Cellulose acetopropionate
R24042 NT Cellulose butyrate
R24100 NT Cellulose phthalate (04)
R24041 NT Cellulose propionate
R24035 NT Cellulose stearate

G3656		NT	Cellulose inorganic esters
R01861			NT Cellulose nitrate
R24087			NT Cellulose phosphate (96)
G3667		NT	Cellulose ester, other
G3678	NT	Cellulose ethers	
R01835		NT	Carboxymethyl cellulose
			UF CMC
R06717		NT	Carboxymethyl cellulose salts (gen)
R07352			NT Sodium carboxymethyl cellulose
R01860		NT	Methyl cellulose
R01858		NT	Ethyl cellulose
R24089		NT	Propyl cellulose (96)
R01865		NT	Ethyl hydroxyethyl cellulose
R16378		NT	Hydroxymethyl cellulose
R01859		NT	Hydroxyethyl cellulose
R03005		NT	Hydroxypropyl cellulose
R06563		NT	Hydroxypropylmethyl cellulose
G3689		NT	Cellulose ether, other
G3690	NT	Cellulose ether ester	
R03233	NT	Chitin	
R03882	NT	Chitosan	
R24069	NT	Galactomannan gum	
R03104	NT	Guar gum	
R24037	NT	Gum arabic	
R03231	NT	Hyaluronic acid (04)	
R17032	NT	Pectin	
R01863	NT	Starch	
R24032		NT	Cyclodextrin
R01857		NT	Dextran
R03275		NT	Dextrin
R16377	NT	Xanthan gum	
G3703	NT	Polysaccharide, other	

G3714 Proteinaceous polymers

R24039	NT	Albumin	
R24040	NT	Casein	
R24034	NT	Collagen	
R24068	NT	Fibroin	
		UF	Silk
R24033	NT	Gelatin	
G3725	NT	Keratin	
		UF	Wool
G3736	NT	Proteinaceous polymer, other	

R24027 Rosin

	UF	Colophony
	UF	Dammar
	UF	Tree resin
R01314	NT	Abietic acid
R24067	NT	Tall oil

G3747 Terpene resins

G3758 Natural polymer, other

Related terms from other facets:

P0599 Natural Polymer [polymer types]
C282 Catalyst for natural polymer production [catalysts]
L2402 Natural polymer production [chemical processes]

Modified Polymers

The terms for Modified Polymers are arranged hierarchically in alphabetical order, with codes of the format Mnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched adding '-R' to the end of the code; thus Halogenated polymer which has been indexed, should be searched using M2222-R. Searching M2222 will retrieve all references - indexed and autoposted.

See Also (SA) terms, which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special generic code, M9999, will be present in the online record whenever a Modified Polymer code has been applied. This enables you to search for the presence of a Modified Polymer without specifying the type of modification.

Many of the concepts in this facet correspond with concepts in the Chemical Processes facet. The Modified Polymer terms are used when the product of the process is the important feature, rather than the process itself.

These Modified Polymer terms can be used in conjunction with Polymer Formers, Polymer Types, Polymer Descriptors and/or Chemical Aspects.

Metal is defined as excluding the following:-

Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe.

Indexing Conventions:

Brominated epoxy resins (with no further information as to whether the polymer former(s) contain bromine or the epoxy resin is post-brominated) are indexed as Epoxy resin with Br (Chemical Aspect).

Whenever a polymer is reacted with another polymer, each polymer is regarded as both a modified polymer and a modifying agent.

Modified Polymers

M2006 Acetalised polymer
SA Polyvinyl acetals [polymer types]

M2017 Acrylated polymer
"Modified with any acrylic derivative. Used with other modified polymer concepts as applicable"

M2028 Amidated polymer
"Including urea group formed"

M2039 Aminated polymer

M2040 Ammoxidated polymer

M2051 Boron incorporated polymer
"Modified by any process incorporating boron"

M2062 Carboxy group incorporated

M2073 Crosslinked polymer
UF Cured polymer
UF Vulcanised polymer

M2084 Cyclised polymer
"Ring created by bond formation"

M2095 Degraded polymer
M2108 NT Carbonised polymer
UF Pyrolysed polymer
UF Thermally decomposed polymer
M2119 NT Depolymerised polymer

M2120 Dehalogenated polymer

M2131 Dehydrohalogenated polymer

M2142 Doped polymer
SA Metal incorporated polymer

M2153 End group modified polymer
M2164 NT End blocked polymer

M2175 Epoxidised polymer
"Modified by formation or incorporation of epoxy group"

M2186 Esterified polymer
"Polymer modified with carboxylic acid or derivative only"
SA Acrylated polymer
SA Halosulphonated polymer
SA Maleinised polymer
SA Sulphonated polymer

M2200 Etherified polymer

M2211 Haloalkylated polymer

M2222 Halogenated polymer
M2233 NT Brominated polymer
M2244 NT Chlorinated polymer
SA Chlorinated polyethylene [polymer types]
M2255 NT Fluorinated polymer
M2266 NT Iodinated polymer
SA Haloalkylated polymer
SA Halosulphonated polymer

M2277 Halosulphonated polymer
UF Halosulfonated polymer
UF Sulphohalogenated polymer
UF Sulfohalogenated polymer
M2288 NT Chlorosulphonated polymer
SA Chlorosulphonated polyethylene [polymer types]

M2299 Hydrocarbylated polymer
"Modified by C-C bond formation"
UF Alkylated polymer
UF Arylated polymer
SA Haloalkylated polymer

M2846 Hydroformylated (96)
"Polymer modified by addition of a hydroformyl group (H_2CO)"

M2302 Hydrohalogenated polymer

M2313 Hydrolysed polymer
UF Alcoholised polymer
UF Glycolised polymer
UF Saponified polymer
SA Vinyl alcohol polymers [polymer types]

M2324 Hydroxy group incorporated polymer
SA Hydrolysed polymer
SA Vinyl alcohol polymers [polymer types]

M2335 Imidated polymer
SA Cyclised polymer

M2346 Isomerised polymer
UF Disproportionated polymer
UF Rearranged polymer

M2357 Ketalised polymer

M2368 Maleinised polymer
"Modified with any maleic derivative. Used with other modified polymer concepts as applicable"

M2379 Metal incorporated polymer
"Metal excludes Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"
M2380 NT Metallated polymer
"C-metal bond formed"
SA Boron incorporated polymer
SA Phosphorus incorporated polymer

SA Silicon incorporated polymer

M2391 Modified polymer (gen)
"Used when modification not specified"

M2415 Neutralised polymer

M2426 Nitrated polymer
"Modified by addition of NO_2"

M2437 Oxidised polymer
UF Ozonised polymer
M2448 NT Dehydrogenated polymer

M2459 Oxyalkylated polymer
UF Alkoxylated polymer

M2460 Phosphorus incorporated polymer
"Modified by any process incorporating phosphorus"

M2700 Quaternised polymer

M2711 Reduced polymer
M2722 NT Hydrogenated polymer

M2766 Silanated polymer
"Modified by formation of Si-C bond"
UF Silylated polymer
SA Silicon incorporated polymer

M2777 Silicon incorporated polymer
"Modified by any process incorporating silicon"
SA Silanated polymer

M2788 Sulphated polymer
UF Sulfated polymer

M2799 Sulphonated polymer
UF Sulfonated polymer

M2802 Surface modified polymer
"Modified by chemical process only"

M2813 Unsaturation incorporated polymer
"C-C unsaturation only"
SA Acrylated polymer
SA Maleinised polymer

M2824 Urethanised polymer
UF Carbamylated polymer

M2835 Modified polymer, other

Related terms from other facets:
H0226 Modifying agent [polymer descriptors]
H0157 Atom(s) incorporated in polymer by modification [polymer descriptors]
H0362 End functional polymer (04) [polymer descriptors]

Chemicals

The Chemicals facet contains all those compounds which commonly occur as additives, catalysts and modifying agents for polymers.

The terms are arranged alphabetically, with Specific Compound Numbers Rnnnnn being used for the specific compounds and Gnnnn codes for generic terms.

There are several small hierarchies within this facet, in which the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Adipic acid esters which have been coded should be searched using G2404-R. Searching G2404 will retrieve all references - indexed and autoposted.

Several of the compounds in this facet can also be found in the Polymer Formers facet. The codes for compounds in this facet can be used for searching polymer formers, preferably in conjunction with the relevant generic or other terms from the Polymer Formers hierarchy.

All of the Specific Compound Numbers and generic codes in this facet autogenerate the relevant Chemical Aspects. This enables very generic searching to be carried out.

For a complete list of autogenerated Chemical Aspects see the Polymer Indexing Reference Manual.

Chemicals

R01314 Abietic acid
SA Rosin [natural polymers]

R00247 Acetic acid

R00840 Acetic anhydride

R00272 Acetone

R00342 Acetonitrile
UF Methyl cyanide

R00675 Acetophenone
UF Phenyl methyl ketone
UF Acetylbenzene

R24047 Acetyl benzoyl peroxide

R08437 Acetyl cyclohexyl sulphonyl peroxide
UF Acetyl cyclohexyl sulfonyl peroxide

R10247 Acetyl peroxide
UF Diacetylperoxide

R10379 Acetyl tributyl citrate

R01047 Acetylacetone
UF Pentanedione, 2,4-

R05000 Acetylacetone peroxide

R01060 Adipic acid

G2404 Adipic acid esters (gen)
"Used when no specific adipate given"
R05115 NT Dibutyl adipate
R05143 NT Dihexyl adipate
R00746 NT Diisooctyl adipate
UF DOA
UF Di(2-ethylhexyl) adipate
R05166 NT Di n-octyl adipate
R05286 NT Octyl n-decyl adipate, n-
G2415 NT Adipic acid ester, other

G2426 Alkyl mercaptans (gen)
"Used when no specific mercaptan given"
G2437 NT Dodecyl mercaptans (gen)
"Used when no specific isomer given"
R00951 NT Dodecyl mercaptan, n-
UF Lauryl mercaptan, n-
UF Lauryl thiol
R14858 NT Dodecyl mercaptan, t-

R05289 NT Octyl mercaptan, n-
G2448 NT Alkyl mercaptan, other

R03167 Aluminium

R01677 Aluminium chloride

R02020 Aluminium hydroxide
UF Alumina trihydrate

R01544 Aluminium oxide
UF Alumina

R01949 Aluminium silicate
UF China clay
UF Clay
UF Kaolin
SA Bentonite

R01432 Aluminium stearate

R01892 Aluminium sulphate
UF Aluminium sulfate

G2459 Amino silanes (gen)
"Used when no specific amino silane given"
R15564 NT Amino propyl trimethoxysilane, gamma- (04)
R03119 NT Aminopropyltriethoxysilane, gamma-
R10366 NT Aminopropyltrimethoxysilane, N-beta-(aminoethyl)-gamma-
G2460 NT Amino silane, other

R24046 Aminoethyl piperidine, N-

R01713 Ammonia

R24066 Ammonium 3,3'-methylenebis(2-naphthalene sulphonate)
UF Ammonium 3,3'-methylenebis(2-naphthalene sulfonate)

R01425 Ammonium acetate

R05417 Ammonium bicarbonate

R01945 Ammonium bromide

R01304 Ammonium carbonate

R01947 Ammonium chloride

R24065 Ammonium dodecylbenzene sulphonate
UF Ammonium dodecylbenzene sulfonate

R01534 Ammonium hydroxide

R06252 Ammonium molybdate

R03252 Ammonium persulphate
UF Ammonium persulfate

R03561 Ammonium polyphosphate

R04218 Ammonium tetrafluoroborate

R00997 Anthracene

R24045 Anthranilamide

R00506 Anthraquinone

G2471 Antimony chlorides (gen)
"Used when no specific antimony chloride given"
R01709 NT Antimony (III) chloride
R04326 NT Antimony(V) chloride

G2482 Antimony oxides (gen)
"Used when no specific antimony oxide given"
R03292 NT Antimony pentoxide
R01527 NT Antimony trioxide

R16211 Asbestos

R00035 Ascorbic acid

G2493 Azelaic acid esters (gen)
"Used when no specific azelaic acid ester given"
R05144 NT Di n-hexyl azelate
R20718 NT Diisooctyl azelate
G2506 NT Azelaic acid ester, other

R08166 Azobis(2-amidinopropane) hydrochloride, 2,2'-

R05026 Azobis(4-cyanovaleric acid), 4,4'-

R05027 Azobis(2,4-dimethylvaleronitrile), 2,2'-

R00426 Azobisisobutyronitrile, 2,2'-
UF Azobis(2-methylpropionitrile), 2,2,-
UF AZBN
UF AIBN

R05028 Azobis(4-methoxy-2,4-dimethylvaleronitrile), 2,2'-

R01055 Azodicarboxamide

G2517 Barium-cadmium systems

G2528 Barium-cadmium-zinc systems

R01311 Barium carbonate

R04650 Barium ferrite

R02001 Barium hydroxide

R10608 Barium metaborate

R05032 Barium stearate

R01739 Barium sulphate
UF Barium sulfate

UF Barytes

G2539 Barium-zinc systems

R03126 Bentonite

R00092 Benzamide

R05035 Benzanthraquinone

R00306 Benzene

R00667 Benzene sulphonic acid
UF Benzene sulfonic acid

R05036 Benzene sulphonyl hydrazide
UF Benzene sulfonyl hydrazide

R05037 Benzene sulphonyl semicarbazide
UF Benzene sulfonyl semicarbazide

R01108 Benzil

R05038 Benzil dimethyl ketal
UF Dimethoxy-2-phenylacetophenone, 2,2-

R00258 Benzoic acid

R00993 Benzoin

R03351 Benzoin ethyl ether

R05040 Benzoin isobutyl ether

R05041 Benzoin isopropyl ether

R05042 Benzoin methyl ether

R00994 Benzophenone

R05043 Benzophenone tetracarboxylic dianhydride, 3,3',4,4'-

R00794 Benzoquinone, 4-
UF Quinone

R05044 Benzothiazole-2-sulphenamide

G2540 Benzotriazoles (gen)
"Used when no specific benzotriazole given"

R00615	NT	Benzotriazole
G2551	NT	Benzotriazole, 2-(2'-hydroxy-alkylphenyl)
R05118	NT	Chloro-benzotriazole, 2-(3',5'di t-butyl-2'-hydroxyphenyl)-5-
R05230	NT	Hydroxyphenyl benzotriazole, 2-
G2562	NT	Benzotriazole, other

R00676 Benzoyl chloride

R00610 Benzoyl peroxide

R00714 Benzyl alcohol

R06279 Benzyl dimethyl ketal

R12472 Bis(t-butylcyclohexyl)peroxy dicarbonate

R05047 Bis(t-butylperoxy)butane, 2,2-

R05048 Bis(t-butylperoxy)cyclohexane, 1,1-

R03960 Bis(t-butylperoxy)diisopropylbenzene, 1,3-

R05050 Bis(t-butylperoxy)3,3,5-trimethylcyclohexane, 1,1-

R05051 Bis(chloroethyl)chloroethyl phosphonate

R05052 Bis(2,4-di t-butylphenyl)pentaerythritol phosphite

R05054 Bis(2-dimethylaminoethyl)ether

G2573 Bis(dimethylbenzyl) diphenylamine

R05161 Bis(hydroperoxy)-2,5-dimethylhexane, 2,5-

R05056 Bis(2-hydroxyethyl)-4-toluidine, N,N-
UF Toluene diethanolamine, p-

R05180 Bis(2-methylphenyl)guanidine

R00470 Bisphenol A
UF Bis(4-hydroxyphenyl)propane, 2,2-

R01894 Boric acid

R01668 Boron

R06458 Boron carbide

R01893 Boron nitride

R01699 Boron trifluoride

R00876 Boron trifluoride etherate

G2584 Brass

R01735 Bromine

G3463 Bronze

R00804 Butane

G2595 Butyl acetates (gen)
R01056 NT Butyl acetate, n-

G3496 Butyl alcohol (gen) (96)
UF Butanol (gen)
R00304 NT Butyl alcohol, n-
UF Butanol, n-
R00436 NT Butyl alcohol, s-
UF Butanol, s-
R00373 NT Butyl alcohol, t-

UF Butanol, t-

R09579 Butyl anthraquinone, 2-t-

R05062 Butyl azo-2,4-dimethyl valeronitrile, 2-t-

R05063 Butylbenzothiazole sulphenamide, N-t-

R05065 Butyl-4,4'-bis(t-butylperoxy)valerate, n-

R04075 Butyl catechol, 4-t-
UF Butyl-1,2-dihydroxybenzene, 4-t-

R00939 Butyl cellosolve
UF Butoxyethanol

R05067 Butyl cumyl peroxide, t-

R05069 Butyl ethyl magnesium, n-

R05070 Butyl glycidyl ether

R00389 Butyl hydroperoxide, t-

R08967 Butylidene-bis(t-butyl cresol), 4,4'-
UF Butylidene-bis(3-methyl-6-t-butylphenol), 4,4-

G2608 Butyl lithium (gen)
"Used when no specific isomer given"
R00882 NT Butyl lithium, n-
R08927 NT Butyl lithium, s-
R09211 NT Butyl lithium, t-

G2619 Butyl magnesium halide

R22582 Butyl methyl dimethoxysilane, t-

R24052 Butyl oleate, n-

R05074 Butyl peroxyacetate, t-

R01412 Butyl peroxybenzoate, t-

R05075 Butyl peroxy(2-ethylhexanoate), t-

R05076 Butyl peroxyisobutyrate, t-

R05077 Butyl peroxymaleic acid, t-
UF Butyl peroxymaleate, t-

R15444 Butyl peroxyneodecanoate, t-

R18682 Butyl peroxyoctoate, t-

R05079 Butyl peroxypivalate, t-

R00668 Butyl phenol, 4-t-

R05081 Butyl stearate

R05082 Cadmium stearate

R01505 Cadmium sulphide

G2620 Cadmium-zinc systems

R00233 Calcium acetate

R01278 Calcium carbonate
UF Limestone
SA Chalk

R01895 Calcium chloride

R01502 Calcium hydroxide

R01503 Calcium oxide

G3509 Calcium phosphate (gen) (96)
R01748 NT Calcium phosphate dibasic
R01755 NT Calcium phosphate monobasic
R01757 NT Calcium phosphate tribasic

R01550 Calcium silicate
SA Wollastonite

R01563 Calcium stearate

R01767 Calcium sulphate
SA Gypsum

G2631 Calcium-zinc systems

R00401 Camphor

R03348 Camphorquinone

R00776 Caprolactam

R01669 Carbon
SA Carbon black
SA Carbon fibre
SA Graphite

R05085 Carbon black
UF Acetylene black
UF Activated charcoal
SA Carbon
SA Graphite

R05086 Carbon fibre
SA Graphite

R00101 Carbon tetrachloride

G2642 Carnauba wax

G3510 Ceramics (96)

"Used only for general references to ceramics"

R05089 Ceric ammonium nitrate

G3452 Chalk
SA Calcium carbonate

R00968 Chlorendic acid

R00967 Chlorendic anhydride

G2653 Chlorinated paraffin

R01781 Chlorine

G2664 Chloroanthraquinone
"Mono substituted; all isomers"

R00864 Chlorobenzene

R00366 Chlorodifluoromethane
UF Freon 22

R00273 Chloroform

R00626 Chlorophenol, 2-

R00848 Chlorophenol, 3-

R00791 Chlorophenol, 4-

R01998 Chloroplatinic acid
UF Platinic chloride

R05093 Chloropropyl trimethoxysilane, gamma-

R05094 Chlorothioxanthone, 2-

R00377 Chlorotrifluoromethane

R13440 Chromium (II) acetylacetonate

G2675 Chromium chlorides (gen)
"Used when no specific chromium chloride given"
R10690 NT Chromium (II) chloride
R01883 NT Chromium (III) chloride

G2686 Chromium oxides (gen)
R01933 NT Chromium (III) oxide

R00419 Citric acid
UF Hydroxy-3,4-dicarboxy-n-butyric acid, 3-

G2697 Cobalt acetates (gen)
"Used when no specific cobalt acetate given"
R04048 NT Cobalt (II) acetate
R01645 NT Cobalt (III) acetate

R05096 Cobalt (II) acetylacetonate

G2700 Cobalt chlorides (gen)
"Used when no specific cobalt chloride given"
R01702 NT Cobalt (II) chloride
R12677 NT Cobalt (III) chloride

R07251 Cobalt naphthenate

R12821 Cobalt (II) octanoate

R05099 Copper

G2711 Copper acetates (gen)
"Used when no specific copper acetate given"
R12128 NT Copper (I) acetate
R01626 NT Copper (II) acetate

G2722 Copper carbonates (gen)
R01682 NT Copper (II) carbonate

G2733 Copper chlorides (gen)
"Used when no specific copper chloride given"
R03311 NT Copper (I) chloride
R01547 NT Copper (II) chloride

G2744 Copper naphthenates (gen)
R04224 NT Copper (II) naphthenate

G2755 Copper oxides (gen)
R03269 NT Copper (I) oxide

R00846 Cresol, 3-

R00474 Cumene hydroperoxide
UF Isopropylbenzene hydroperoxide

R00913 Cyclohexane

R00866 Cyclohexanol

R00867 Cyclohexanone

R01950 Cyclohexanone peroxide

R00865 Cyclohexylamine

R00618 Cyclohexyl-benzthiazol-2-yl sulphenamide, N-
UF CBS

R05104 Cyclohexylthiophthalimide, N-

R01191 Cyclopentane (04)

R05321 Dawsonite
UF Sodium aluminium hydroxycarbonate

R05105 Decabromodiphenyl

R05106 Decabromodiphenyl ether
UF Decabromodiphenyl oxide

R01063 Decane, n-

R05107 Decanoyl peroxide
UF Caproyl peroxide

R05108 Diacetyl
UF Dimethyl glyoxal

R00905 Diaminobutane, 1,4-
UF Butane diamine, 1,4-
UF Tetramethylene diamine

G1718 Diaminodiphenyl methanes (gen)
"Used when no specific isomer given"
R00737 NT Diaminodiphenyl methane, 4,4'-
UF Methylene dianiline, 4,4'-
G1729 NT Diaminodiphenyl methane, other

G1741 Diaminodiphenyl sulphones (gen)
"Used when no specific isomer given"
UF Diaminodiphenyl sulfones (gen)
R00472 NT Diaminodiphenyl sulphone, 4,4'-
UF Bis(4-aminophenyl)sulphone
G1752 NT Diaminodiphenyl sulphone, other

G2766 Diatomaceous earth
UF Diatomite
UF Kieselguhr

R04358 Diazabicyclo(5.4.0) undec-7-ene, 1,8-

R01005 Dibenzothiazyl disulphide

R01005 Dibenzothiazyl disulphide
UF Dibenzothiazyl disulfide
UF Mercaptobenzthiazyl ether

R04425 Dibenzylidene sorbitol

R00944 Di n-butylamine

R05116 Di t-butylhydroquinone, 2,5-

R05117 Di t-butyl-4-hydroxybenzoic acid, 3,5-

R05119 Dibutyl magnesium

R05120 Di n-butyl maleate

R01090 Di t-butyl-4-methyl phenol, 2,6-

R00899 Di t-butyl peroxide

R01091 Di t-butylphenol, 2,6-

R05124 Dibutyl tin diacetate

R08802 Dibutyl tin diisooctylthioglycolate

R00415 Dibutyl tin dilaurate

R03148 Dibutyl tin dioctoate

R06446 Dibutyl tin maleate

G2777 Dibutyl tin mercaptide

R24053 Di n-butyl tin mercaptopropionate

R05130 Dibutyl tin oxide

R24056 Di n-butyl tin thioglycolate

R05132 Dichlorobenzoyl peroxide, 2,4-

R00376 Dichlorodifluoromethane

R00811 Dichloroethane, 1,2-
UF Ethylene dichloride

R00364 Dichlorofluoromethane

R00345 Dichloromethane
UF Methylene chloride

R00399 Dichlorotetrafluoroethane, 1,2-

R05133 Dicinnamylidene hexane diamine

R00476 Dicumyl peroxide

R01264 Dicyanodiamide

R05136 Diethanolamine stearate

R05259 Diethanol methylamine, N,N-

R05137 Diethoxyacetophenone

R00639 Diethyl aluminium chloride

R00890 Diethyl amine

R05138 Diethylamine oleate

R05139 Diethylaminopropylamine

R00587 Diethyl aniline

R21644 Diethyl carbonate

R01162 Diethyl dithiocarbamic acid

R05140 Diethylene glycol dibenzoate

R01595 Diethylene glycol dimethacrylate
UF Diglycol dimethacrylate

R00945 Diethylene glycol dimethyl ether

R12254 Diethylene glycol monomethyl ether

R00928 Diethylene triamine

R00705 Diethyl ethanolamine, N,N-

R05141 Diethyl magnesium

R05142 Diethyl zinc

G2788 Dihydrocarbyl phosphites (gen)
"Used when no specific dihydrocarbyl phosphite given"
R05122 NT Dibutyl phosphite
R05173 NT Diphenyl phosphite
G2799 NT Dihydrocarbyl phosphite, other

G3485 Dihydroxybenzophenones (gen)
"Used when no specific dihydroxybenzophenone given"
R05147 NT Dihydroxybenzophenone, 2,4-
R05149 NT Dihydroxy-4-methoxybenzophenone, 2,2'-
G2802 NT Dihydroxybenzophenone, other

R24064 Diisobutyl aluminium chloride

R24060 Diisobutyl aluminium hydride

R24085 Diisooctyl peroxydicarbonate (96)
UF Di 2-ethylhexyl peroxydicarbonate

R05153 Diisopropyl peroxydicarbonate

R01039 Dilauryl 3,3'-thiodipropionate

R24086 Dimethoxy acetophenone (96)

R01084 Dimethyl acetamide, N,N-

R01067 Dimethyl amine

R19266 Dimethyl aminomethyl phenol

R00874 Dimethylaminopropylamine

R05163 Dimethylaminotoluene, N,N-

R01020 Dimethyl aniline, N,N-

R05155 Dimethylbenzylamine, N,N-

R05156 Dimethyl-2,5-bis(benzoylperoxy)hexane, 2,5-
UF Bis(benzoylperoxy)hexane-2,5-dimethyl, 2,5-

R05157 Dimethyl-2,5-bis(t-butylperoxy)hex-3-yne, 2,5-
UF Bis(t-butylperoxy)hex-3-yne, 2,5-dimethyl, 2,5-

R07250 Dimethyl carbonate

R05158 Dimethyl cyclohexylamine, N,N-

R03551 Dimethyl-2,5-di-(t-butylperoxy)hexane, 2,5-

UF Bis(t-butylperoxy)hexane-2,5-dimethyl, 2,5-

R05160 Dimethyl-N,N'-dinitrosoterephthalamide, N,N'-

R00834 Dimethylethanolamine, N,N-

R00278 Dimethyl formamide
UF DMF

R05162 Dimethyl imidazole

R01555 Dimethyl isophthalate

R00417 Dimethyl sulphate
UF Dimethyl sulfate

R00274 Dimethyl sulphoxide
UF Dimethyl sulfoxide
UF DMSO

R01002 Dimethyl terephthalate

R04321 Di-2,2'-naphthyl-1,4-phenylene diamine, N,N'-

R00732 Dinitrosopentamethylene tetramine, N,N'-

R05167 Dioctyl maleate

R05169 Dioctyl sulphosuccinic acid
UF Dioctyl sulfosuccinic acid

R05170 Dioctyl tin dilaurate

R01057 Dioxane, 1,4-

R05171 Dipentamethylenethiuram tetrasulphide
UF Dipentamethylenethiuram tetrasulfide

R06918 Diphenyl carbonate

R05172 Diphenyl disulphide
UF Diphenyl disulfide

R00739 Diphenyl ether

R00740 Diphenyl guanidine

R00322 Diphenyl-4-phenylene diamine, N,N'-

R05175 Diphenyl sulphide

R06943 Diphenyl sulphone

R00741 Diphenyl thiourea, sym

R05176 Dipropylene glycol dibenzoate

R12182 Dipropylene glycol monomethyl ether

R05177 Distearyl-pentaerythritol diphosphite

R05178 Distearylthiodipropionate

R05183 Dodecenyl succinic anhydride

R02057 Dodecylbenzenesulphonic acid
UF Dodecylbenzenesulfonic acid
UF Laurylbenzene sulfonic acid
UF Laurylbenzene sulphonic acid

R01174 Dodecyl sulphuric acid, n-
UF Dodecyl sulfuric acid, n-
UF Lauryl sulfuric acid
UF Lauryl sulphuric acid

R05184 Dolomite
UF Calcium magnesium carbonate

G2222 Epoxidised vegetable oil
UF Epoxidized vegetable oil
UF Epoxidised drying oil
UF Epoxidised non-drying oil
G2233 NT Epoxidised castor oil
G2244 NT Epoxidised linseed oil
G2255 NT Epoxidised soybean oil

G2813 Epoxy silanes (gen)
"Used when no specific epoxy silane given"
R05188 NT Ethyl trimethoxy silane, beta-(3,4-epoxycyclohexyl)
R05221 NT Glycidoxypropyl triethoxysilane, gamma-
R05222 NT Glycidoxypropyl trimethoxysilane, 3-
G2824 NT Epoxy silane, other

R05190 Erucamide

R00245 Ethanol
UF Ethyl alcohol

R00204 Ether
UF Ethyl ether

G2835 Ethoxylated alkyl phenols (gen)
R16392 NT Ethoxylated nonyl phenols
R24063 NT Ethoxylated octyl phenols
UF Polyoxyethylene octyl phenol
G2846 NT Ethoxylated alkyl phenol, other

R01135 Ethyl acetate

R01381 Ethyl aluminium dichloride

R05194 Ethyl aluminium sesquichloride

R05195 Ethyl anisate

R03172 Ethylanthraquinone, 2-

R00707 Ethylbenzene

R00603 Ethyl benzoate

R03554 Ethyl-3,3-bis(t-butylperoxy)butyrate

R05198 Ethylene bisstearamide

R00819 Ethylene diamine

R00195 Ethylene diamine tetraacetic acid
UF EDTA

R00933 Ethylene glycol diacetate

R01592 Ethylene glycol diacrylate
UF Glycol diacrylate

R00643 Ethylene thiourea
UF Imidazolidinethione, 2-

R00765 Ethylhexanol, 2-

R05202 Ethyl imidazole, 2-

R24018 Ethyl imidazoline, 2-

G2857 Ethyl magnesium halide

R05205 Ethyl-4-methylimidazole, 2-

R05206 Ethyl morpholine, N-

G2868 Ethyl toluate

R05208 Ethyl toluene sulphonamide, N-
UF Ethyl toluene sulfonamide, N-

G2879 Feldspar
UF Potassium aluminosilicate

R00001 Formaldehyde

R01169 Formaldehyde sulphoxylic acid
UF Formaldehyde sulfoxylic acid
UF Rongalit

R00246 Formic acid

G4160 Fullerenes (04)
"Optionally substituted."
UF Nanotubes
UF Buckyballs

R00902 Fumaric acid

R12837 Germanium (II) oxide

G2880 Glass
SA Glass fibre

G2891 Glass fibre

R09054 Glyceryl-1,3-diacetate
UF Diacetin

R03652 Glyceryl-1,3-distearate

R12505 Glyceryl-1-monooleate

R03191 Glyceryl-1-monostearate
UF Monostearin

R00744 Glyceryl triacetate
UF Triacetin

R05219 Glyceryl tribenzoate

R05220 Glyceryl tristearate
UF Tristearin

R00823 Glyoxal

R03080 Gold

R01778 Graphite

R03122 Gypsum
UF Calcium sulfate hemihydrate
UF Calcium sulphate hemihydrate

R24101 Hafnium dicyclopentadienyl dichloride (04)

R01145 Heptane, n-

R05223 Hexabromobenzene

R04056 Hexabromocyclododecane

R00414 Hexachlorocyclopentadiene

R00515 Hexahydrophthalic anhydride
UF Cyclohexane dicarboxylic anhydride

R01455 Hexamethylene diisocyanate
UF HMI

R00727 Hexamethylene tetramine
UF Hexamine
UF Urotropin

R00904 Hexane, n-

R01062 Hexane diamine, 1,6-
UF Hexamethylene diamine

R00926 Hexanol

R01208 Hydrazine

R01532 Hydrogen

R01704 Hydrogen chloride

R01732 Hydrogen peroxide

R01041 Hydroquinone

R05274 Hydroquinone t-butyl ether
UF Butoxyphenol, 4-

R01173 Hydroquinone methyl ether
UF Guaiacol, 4-

R06086 Hydrotalcite
UF Aluminium magnesium hydroxide carbonate

R00253 Hydroxybenzamide, 2-
UF Salicylamide

R24102 Hydroxy cyclohexyl phenyl ketone (04)

R06722 Hydroxypropyl methyl ether, 2-

R01193 Imidazole

R03036 Iron

R05231 Iron (II) acetylacetonate

G2904 Iron chloride (gen)
"Used when no specific iron chloride given"
R01939 NT Iron (II) chloride
R04007 NT Iron (III) chloride

G2915 Iron oxides (gen)
R03239 NT Iron (III) oxide
R04232 NT Iron oxide (Fe3O4)

G2926 Iron sulphate (gen)
"Used when no specific iron sulphate given"
UF Iron sulfate (gen)
R01729 NT Iron (II) sulphate
R03295 NT Iron (III) sulphate

R00355 Isobutane

R00431 Isobutanol

R03420 Isobutyl aluminium dichloride

R05232 Isonicotinamide

R01342 Isooctane

R00428 Isopentane (96)

R00425 Isophorone
UF Trimethyl-2-cyclohexone, 3,5,5-

R01624 Isophorone diisocyanate
UF Trimethyl-1-isocyanatomethyl-5-isocyanatocyclohexane, 1,3,3-

R01023 Isophthalic acid
UF Benzene dicarboxylic acid, 1,3-

R00271 Isopropanol
UF Isopropyl alcohol

R00736 Isopropyl-N'-phenyl-4-phenylenediamine, N-

R01147 Lauric acid
UF Dodecanoic acid, n-

R05235 Lauroyl peroxide

R00950 Lauryl alcohol

G2937 Lead acetate (gen)
"Used when no specific lead acetate given"
R01982 NT Lead (II) acetate
R16194 NT Lead (IV) acetate

R05236 Lead (II) carbonate (basic)

R05237 Lead (II) chromate

R06560 Lead molybdate

R10803 Lead (II) naphthenate

R05239 Lead (II) octanoate

G2948 Lead oxides (gen)

R05240 Lead (II) phosphite (dibasic)

R05241 Lead (II) phthalate

R03535 Lead (II) silicate

R05242 Lead (II) stearate

R01676 Lead (II) sulphate
UF Lead (II) sulfate

R01833 Lecithin

R01994 Lithium aluminium hydride

R06211 Lithium aluminium silicate

R01679 Lithium chloride

R01513 Lithium hydroxide

R05246 Lithium stearate

R05247 Magnesium

R04953 Magnesium acetate

G2959 Magnesium alkoxide

R01359 Magnesium carbonate

R01801 Magnesium chloride

R05249 Magnesium hydride

R01509 Magnesium hydroxide

R01510 Magnesium oxide
UF Magnesia

R01541 Magnesium silicate
SA Talc

R01376 Magnesium stearate

R01680 Magnesium sulphate
UF Magnesium sulfate

R00901 Maleic acid

R00843 Maleic anhydride

R05250 Malondiamide

R01433 Manganese (II) acetate

R01535 Manganese (II) naphthenate

R05251 Manganese (II) octanoate
UF Manganese (II) octoate

R06360 Manganese (II) oxide

R00859 Melamine
UF Triamino-s-triazine, 2,4,6-

R08152 Melamine cyanurate (96)

R05252 Menthane hydroperoxide

R01388 Mercaptobenzimidazole, 2-
UF Benzimidazole-2-thiol

R01167 Mercaptobenzothiazole, 2-
UF MBT

R00201 Mercaptoethanol

G2960 Mercapto silanes (gen)
"Used when no specific mercapto silane given"
R05254 NT Mercaptopropyltrimethoxysilane, 3-
G2971 NT Mercapto silane, other

R01565 Mercury (II) acetate

G2982 Methacrylato silanes (gen)
"Used when no specific methacrylato silane given"
R05257 NT Methacryloxypropyl trimethoxysilane, 3-

G2993 NT Methacrylato silane, other

R00380 Methanesulphonic acid
UF Methanesulfonic acid

R00270 Methanol

R05258 Methylbenzoin, alpha-

R00888 Methyl cellosolve
UF Ethylene glycol monomethyl ether
UF Methoxyethanol, 2-

R24043 Methylcyclohexylamine, 4-

R05260 Methyl-4-(dimethylaminoethyl)piperazine, 1-

R00992 Methylene bis(6-t-butyl-4-cresol), 2,2'-

R05261 Methylene bis(4-ethyl-6-t-butyl phenol), 2,2'-

R05262 Methylene bis-6-(1-methylcyclohexyl)-4-cresol, 2,2'-

R05323 Methylene bis(2-naphthalene sodium sulphonate), 3,3'-
UF Methylene bis(2-naphthalene sodium sulfonate), 3,3'-

R05164 Methylene bis(2-naphthalene sulphonic acid), 3,3'-
UF Methylene bis(2-naphthalene sulfonic acid), 3,3'-

R00437 Methyl ethyl ketone
UF MEK

R13049 Methyl ethyl ketone oxime

R01536 Methyl ethyl ketone peroxide

R00826 Methyl formate

R05362 Methylhydroquinone
UF Toluhydroquinone

R05263 Methyl imidazole, 2-

R00836 Methyl isobutyl ketone
UF MIBK

R05264 Methyl isobutyl ketone peroxide

G3009 Methyl magnesium halide

R05266 Methylmorpholine, N-

G0782 Methyl nadic anhydride
“All isomers”

R05268 Methyl-2-pyrrolidone, N-
UF NMP

G0771 Methyl tetrahydrophthalic anhydride
“All isomers”

R05270 Methyl toluate, 3-

R00384 Methyltrichlorosilane

G3010 Mica

R05053 Michler's ketone
UF Bis(dimethylamino)benzophenone, 4,4'-

G3521 Mineral oil (gen) (96)
"Only used for general references to mineral oil"

R07699 Molybdenum (IV) oxide

R07035 Molybdenum (IV) sulphide
UF Molybdenum (IV) sulfide

G3021 Monohydroxy benzophenones (gen)
"Used when no specific monohydroxy benzophenone given"
R05226 NT Hydroxy-4-dodecyloxy benzophenone, 2-
R05227 NT Hydroxy-2-methoxy benzophenone, 2-
R05228 NT Hydroxy-4-methoxy benzophenone, 2-
R05229 NT Hydroxy-4-n-octyloxy benzophenone, 2-
G3032 NT Monohydroxy benzophenone, other

R16529 Montmorillonite

R05179 Morpholine disulphide
UF Morpholine disulfide

R01356 Myristic acid

R01094 Nadic anhydride
UF Carbic anhydride

R00578 Naphthalene

R05277 Naphthalene-1-acetamide, 2-

G1901 Naphthalene diisocyanates (gen)
R12045 NT Naphthalene diisocyanate, 1,5-

R05280 Naphthalene sulphonyl chloride
UF Naphthalene sulfonyl chloride

R01537 Naphthenic acid

R01110 Naphthol, 2-

R01095 Naphthoquinone, 1,4-

G3043 Nickel bis n-octyl phenyl sulphide
UF Nickel bis n-octyl phenyl sulfide

R05282 Nickel dibutyldithiocarbamate

R00678 Nicotinamide

R01724 Nitric acid

R00679 Nitrobenzene

R01738 Nitrogen (96)

R00369 Nitromethane

R05283 Nitrosodiphenyl amine, N-

G3532 Nonyl phenol (gen) (96)
"Includes all isomers"

R03140 Octabromodiphenyl ether
UF Octabromodiphenyl oxide

R05285 Octadecyl 3-(3',5'-di-t-butyl-4'-hydroxyphenyl) propionate
UF Stearyl 3-(3',5'-di-t-butyl-4'-hydroxyphenyl)propionate

R08433 Octane

R01061 Octanoic acid, n-

G4171 Octanols (04)
R00765 NT Ethylhexanol, 2-

R05290 Oleamide

R00954 Oleic acid

R01152 Oxalic acid

R05292 Oxybis(benzene sulphonyl hydrazide), 4,4'-
UF Oxybis(benzene sulfonyl hydrazide), 4,4'-

R05293 Oxydiethylenebenzothiazole sulphenamide, N-
UF Oxydiethylenebenzothiazole sulfenamide, N-
UF OBS

R01887 Ozone

R05294 Palladium (II) acetate

G3474 Paraffin wax

R05296 Pentabromochlorocyclohexane

G3076 Pentabromodiphenyl ether

R05298 Pentabromoethyl benzene

R00972 Pentaerythritol

R05422 Pentaerythritol phosphate

G3087 Pentaerythritol stearates (gen)
R05424 NT Pentaerythritol tetrastearate

R05299 Pentaerythritol tetrakis(thioglycolate)

R00879 Pentane, n-

G3098 Perlite

R05301 Phenanthraquinone

R00868 Phenol

R00595 Phenothiazine

R00624 Phenylene diamine, 2-

R00850 Phenylene diamine, 3-

R00793 Phenylene diamine, 4-

R05302 Phenylimidazole, 2-

R05428 Phenyl indole, N-

R00568 Phenyl-1-naphthylamine, N-

R05303 Phenyl salicylate

R05304 Phenyltetrazole, 5-

G3101 Phosphonium compounds (gen)

"Used when no specific phosphonium compound given"

R05209	NT	Ethyl triphenyl phosphonium acid acetate
R05210	NT	Ethyl triphenyl phosphonium iodide
R05271	NT	Methyl triphenyl phosphonium bromide
R05338	NT	Tetrabutyl phosphonium hydroxide
G3112	NT	Phosphonium compound, other

R01711 Phosphoric acid

R01734 Phosphorus

G3123 Phthalic acid esters (gen)

"Used when no specific phthalic acid ester given"

R05064	NT	Butyl benzyl phthalate
R05068	NT	Butyl cyclohexyl phthalate
R21696	NT	Butyl phthalyl n-butyl glycolate, n-
R01098	NT	Diallyl phthalate, 1,2-
R05113	NT	Dibutoxyethyl phthalate
R00508	NT	Dibutyl phthalate
R04926	NT	Dicyclohexyl phthalate
R20034	NT	Didecyl phthalate
R00507	NT	Diethyl phthalate
R05145	NT	Dihexyl phthalate
R24044	NT	Diisobutyl phthalate
R09416	NT	Diisodecyl phthalate
R11175	NT	Diisononyl phthalate
R00981	NT	Diisooctyl phthalate
	UF	DOP
	UF	Bis(2-ethylhexyl) phthalate
G3134	NT	Di(methylcyclohexyl) phthalate
R01097	NT	Dimethyl phthalate
R00509	NT	Dinonyl phthalate

R00982 NT Di n-octyl phthalate
R05174 NT Diphenyl phthalate
R05181 NT Ditridecyl phthalate
R05182 NT Diundecyl phthalate
R05200 NT Isooctyl benzyl phthalate
UF Ethylhexyl benzyl phthalate, 2-
R05287 NT Octyl n-decyl phthalate, n-
G3145 NT Phthalic acid ester, other

R00554 Phthalic acid
UF Benzene dicarboxylic acid, 1,2-

R00517 Phthalic anhydride

R00915 Piperazine

R01844 Polyoxyethyleneglycol lauryl ether

R24059 Polyoxyethylene sorbitan monolaurate
UF Polysorbate 20

R24080 Polyoxyethylene sorbitan monooleate
UF Polysorbate 80

R05307 Polyoxyethylene sorbitan monopalmitate
UF Tween 40

R24061 Polyoxyethylene sorbitan monostearate
UF Polysorbate 60

R13366 Polyoxyethylene sorbitan trioleate

R24062 Polyoxyethylene sorbitan tristearate

R01080 Potassium acetate

R01749 Potassium bromate

R01391 Potassium carbonate

R01815 Potassium fluoride

R01512 Potassium hydroxide

R05310 Potassium oleate

R01730 Potassium permanganate

R01737 Potassium persulphate
UF Potassium persulfate

R05311 Potassium titanate

R00335 Propane

R00302 Propanol, n-
UF Propyl alcohol

R01043 Propionaldehyde

R08574 Propylene glycol monomethyl ether acetate

R00916 Pyridine

R00539 Pyrogallol
UF Trihydroxybenzene, 1,2,3-

R00556 Pyromellitic dianhydride G3156

G3156 Quartz
UF Sand
SA Silicon dioxide

R05313 Resorcinol monobenzoate

R00924 Sebacic acid

G3167 Sebacic acid esters (gen)
"Used when no specific sebacic acid ester given"
R05057 NT Bis(2,2,6,6-tetramethyl-4-piperidinyl)sebacate
R05114 NT Dibutoxyethyl sebacate
R04168 NT Di n-butyl sebacate
R01033 NT Diisooctyl sebacate
UF DOS
UF Di(2-ethylhexyl) sebacate
R05168 NT Di n-octyl sebacate
G3178 NT Sebacic acid ester, other

R01542 Silicic acid

R01666 Silicon

R01247 Silicon carbide

R01694 Silicon dioxide
UF Silica
SA Quartz

R03124 Silicon nitride

R05318 Silicon tetrachloride

R05319 Silver

R01081 Sodium acetate

R01333 Sodium benzoate

R01151 Sodium bicarbonate

R01695 Sodium bisulphite
UF Sodium bisulfite
UF Sodium hydrogensulphite
UF Sodium hydrogensulfite

R01997 Sodium borohydride

R01287 Sodium carbonate

R01706 Sodium chloride

R05322 Sodium diethyl dithiocarbamate

R05324 Sodium dioctyl sulphosuccinate
UF Sodium dioctyl sulfosuccinate

R05325 Sodium 4-dodecylbenzene sulphonate
UF Sodium 4-dodecylbenzene sulfonate

R08974 Sodium formaldehydesulphoxylate
UF Sodium formaldehydesulfoxylate

R01766 Sodium hydrosulphite
UF Sodium hydrosulfite

R01514 Sodium hydroxide

R05326 Sodium laurate
UF Sodium dodecanoate

R05327 Sodium lauryl sulphate
UF Sodium lauryl sulfate
UF Sodium dodecyl sulphate
UF Sodium dodecyl sulfate

R05328 Sodium lauryl sulphonate
UF Sodium lauryl sulfonate
UF Sodium dodecyl sulphonate
UF Sodium dodecyl sulfonate

R01720 Sodium metabisulphite
UF Sodium metabisulfite
UF Sodium pyrosulphite
UF Sodium pyrosulfite

R01068 Sodium methoxide

R01148 Sodium oleate

R05329 Sodium persulphate
UF Sodium persulfate

R01543 Sodium silicate

R01456 Sodium stearate

R01744 Sodium sulphate
UF Sodium sulfate

R01518 Sodium sulphide
UF Sodium sulfide

R01745 Sodium sulphite
UF Sodium sulfite

R01529 Sodium tetraborate
UF Borax

R01538 Sorbitan monolaurate

R01540 Sorbitan monooleate

R02049 Sorbitan monopalmitate

R01539 Sorbitan monostearate

R05331 Stearamide

R00122 Stearic acid

R05332 Stearoyl-4-aminophenol, N-

R00955 Stearyl alcohol

G3189 Steel

R00708 Styrene

R00900 Succinic acid

R00842 Succinic anhydride

R00135 Sucrose (96)

R01076 Sulpholane
UF Sulfolane

R01725 Sulphur
UF Sulfur

R01675 Sulphur trioxide
UF Sulfur trioxide

R01714 Sulphuric acid
UF Sulfuric acid

G3190 Talc
SA Magnesium silicate

R20197 Tantalum pentachloride

R00540 Tartaric acid

R00702 Terephthalic acid
UF Benzene dicarboxylic acid, 1,4-

R03113 Tetrabromobisphenol A, 3,3',5,5'-
UF Bis(3,5-dibromo-4-hydroxyphenyl) propane, 2,2-

G3203 Tetrabromobisphenol A bis(dibromopropyl ether)

R05336 Tetrabromophthalic anhydride

R05337 Tetrabutyl ammonium hydroxide

R00986 Tetrachloro-4-benzoquinone

G3214 Tetrachloroethanes (gen)

"All isomers"

R05339 Tetrachlorophthalic anhydride

R01558 Tetracyanoquinodimethane

R06010 Tetraethoxysilane
UF Tetraethyl silicate

R00934 Tetraethylenepentamine

R05340 Tetraethyl ethylene diamine

G3225 Tetrahydrocarbyl ammonium halides (gen)
R05345 NT Tetramethyl ammonium chloride

R00895 Tetrahydrofuran
UF THF

R05342 Tetrahydrophthalic acid

R00516 Tetrahydrophthalic anhydride

R05343 Tetrakis(2,4-di t-butylphenyl)-4,4'-biphenylene-diphosphonite

R05344 Tetrakis(methylene 3-(3',5'-di t-butyl-4'-hydroxyphenyl)propionate)methane
UF Irganox 1010
UF Pentaerythritol tetrakis(3,5-di-t-butyl-4-hydroxy hydrocinnamate)
UF Pentaerythritol tetrakis(3-(3',5'-di-t-butyl-4'-hydroxyphenyl)propionate
UF Tetrakis(3-(3,5-di-t-butyl-4-hydroxyphenyl)propionate)pentaerythritol
UF Tetrakis(methylene (3,5-di-t-butyl-4-hydroxy-hydrocinnamate))methane

R04510 Tetramethoxy silane

R04571 Tetramethyl ammonium hydroxide

G3236 Tetramethyl ammonium ion

R05346 Tetramethyl-1,3-butanediamine, N,N,N',N'-

R05347 Tetramethylethylenediamine

R05348 Tetramethyl guanidine

R00655 Tetramethylthiuram monosulphide
UF Tetramethylthiuram monosulfide

R00646 Thiobis(2-t-butyl-5-methyl phenol), 4,4'-

R05349 Thiodipropionic acid

R00277 Thioglycolic acid
UF Mercaptoacetic acid, 2-

R05253 Thioglycolic-beta-aminonaphthalide

R01727 Thionyl chloride

G3247 Thiuram disulphides (gen)
"Used when no specific thiuram disulphide given"

UF Thiuram disulfides (gen)
R00656 NT Tetraethylthiuram disulphide
R01115 NT Tetramethylthiuram disulphide
UF Thiram
UF Thiuram
G3258 NT Thiuram disulphide, other

G3269 Tin chlorides (gen)
"Used when no specific tin chloride given"
R03040 NT Tin (II) chloride
R01701 NT Tin (IV) chloride

R05350 Tin (II) octanoate

R05351 Tin (IV) oleate

G3270 Tin oxides (gen)
"Used when no specific tin oxide given"
R06013 NT Tin (II) oxide
R01531 NT Tin (IV) oxide

R05352 Tin (IV) thioglycolate

G3054 Titanates, organic (gen)
"Used when no specific organo titanate given. Compounds of the structure Ti-O-R."
R04589 NT Isopropyl triisostearyl titanate
R01644 NT Titanium tetrabutoxide
R05354 NT Titanium tetraethoxide
R05355 NT Titanium tetra(2-ethylhexoxide)
R05356 NT Titanium tetraisopropoxide
R05357 NT Titanium tetra n-propoxide
G3065 NT Titanate, organic other

G3281 Titanium chlorides (gen)
"Used when no specific titanium chloride given"
R05353 NT Titanium tetrachloride
R05358 NT Titanium trichloride

R24103 Titanium dicyclopentadienyl dichloride (04)

R01966 Titanium oxide

R00862 Toluene

G1912 Toluene diisocyanates (gen)
"Used when no specific isomer given"
UF TDI
R01392 NT Toluene diisocyanate, 2,4-
UF TDI, 2,4-
R00574 NT Toluene diisocyanate, 2,6-
UF TDI, 2,6-

R05359 Toluene ethyl sulphonamide
UF Toluene ethyl sulfonamide

R00301 Toluene sulphonamide, 4-

UF Toluene sulfonamide, 4-

R00760 Toluene sulphonic acid
UF Toluene sulfonic acid

R05360 Toluene sulphonyl hydrazide, 4-
UF Toluene sulfonyl hydrazide, 4-

R05361 Toluene sulphonyl semicarbazide, 4-
UF Toluene sulfonyl semicarbazide, 4-

R05363 Toluquinone

R05364 Triallyl cyanurate

R00733 Triallyl isocyanurate
UF Triallyl isocyanuric acid, N,N',N''-

G3292 Tri(bromocresyl)phosphate
"All isomers"

G3305 Tribromophenol
"All isomers"

R05367 Tributoxyethyl phosphate

R05369 Tributyl phosphine

R05368 Tributylamine

R00395 Trichloroacetic acid

R00307 Trichloroethane, 1,1,1-

R00441 Trichloroethylene

R05370 Tri(chloroethyl)phosphate

R00375 Trichloromonofluoromethane

R00398 Trichloro-1,2,2-trifluoroethane

G3316 Tricresyl phosphite

R05372 Tri(dibromopropyl)phosphate

R05373 Tri(2,4-di t-butylphenyl)phosphite

R05374 Tri(dichloropropyl)phosphate

R05375 Tri(dimethylaminoethyl)phenol

R03345 Tri(dimethylaminomethyl)phenol, 2,4,6-

R05377 Tridodecyl phosphite

R00743 Triethanolamine

R00659 Triethyl aluminium

R01013 Triethyl amine

R01188 Triethylene diamine
UF Diazabicyclo(2.2.2) octane, 1,4-

R05378 Triethylene glycol dimethacrylate

R00925 Triethylene tetramine

R00396 Trifluoroacetic acid

R06214 Trifluoromethane sulphonic acid
UF Trifluoromethane sulfonic acid

R05380 Trihydrazino triazine

G3327 Trihydrocarbyl phosphates (gen)
"Used when no specific trihydrocarbyl phosphate given"

G3338	NT	Cresyl diphenyl phosphate
R05288	NT	Diphenyl n-octyl phosphate
R05201	NT	Isooctyl diphenyl phosphate
	UF	Ethylhexyl diphenyl phosphate, 2-
R05233	NT	Isopropylphenyl diphenyl phosphate
R01077	NT	Tri n-butyl phosphate
R00423	NT	Tricresyl phosphate
G3349	NT	Tri(dimethylphenyl) phosphate
R00424	NT	Triethyl phosphate
R05379	NT	Triisooctyl phosphate
	UF	Tri(2-ethylhexyl) phosphate
G3350	NT	Tri (Isopropylphenyl) phosphate
R01309	NT	Trimethyl phosphate
R05391	NT	Tri n-octyl phosphate
R00973	NT	Triphenylphosphate
G3361	NT	Tri n-propylphenyl phosphate
G3372	NT	Trihydrocarbyl phosphate, other

R00728 Triisobutyl aluminium

R05383 Triisooctyl phosphite

G3383 Trimellitic acid esters (gen)
"Used when no specific trimellitic acid ester given"

R05382	NT	Triisodecyl trimellitate
R05384	NT	Triisooctyl trimellitate
R05392	NT	Tri n-octyl trimellitate
G3394	NT	Trimellitic acid ester, other

R01363 Trimellitic anhydride

R00352 Trimethyl aluminium

R00368 Trimethyl amine

R05388 Trimethylolpropane triacrylate

R05389 Trimethylolpropane trimethacrylate

R09477 Tri(nonylphenyl)phosphite

R05393 Triphenyl aluminium

R01408 Triphenylphosphine

R05423 Triphenylphosphine oxide

R00729 Triphenylphosphite

G3407 Tris(dialkylaminoalkyl)hexahydrotriazine, N,N',N''-

R05429 Tris(hydroxyethyl)isocyanurate
UF Tris(2-hydroxyethyl)-s-triazine-2,4,6-trione, 1,3,5-

R06087 Tungsten hexachloride

R00123 Urea

R01929 Vanadium (III) chloride

R16384 Vanadium naphthenate

R02075 Vanadium oxychloride
UF Vanadyl chloride

G2186 Vegetable oil
UF Drying oil
UF Non-drying oil
G2197 NT Castor oil
G2200 NT Linseed oil
G2211 NT Soybean oil

G0691 Vinyl silanes monoolefinic (gen)
"Used when no specific vinyl silane given"
R05399 NT Vinyl triacetoxy silane
R00390 NT Vinyl trichloro silane
R05400 NT Vinyl triethoxy silane
R05402 NT Vinyl trimethoxy silane
R05401 NT Vinyl tris(2-methoxyethoxy) silane
G0704 NT Vinyl silane monoolefinic, other

R01740 Water

G3418 Wollastonite
SA Calcium silicate

G3429 Wood

G3430 Xylenes
"All isomers"

G3441 Zeolites(gen)

R05406 Zinc acetate

R05407 Zinc acetylacetonate

R03130 Zinc borate

R05410 Zinc carbonate

R01703 Zinc chloride

R10007 Zinc diacrylate (96)

R24057 Zinc dibutyl dithiocarbamate

R05412 Zinc diethyl dithiocarbamate

R01116 Zinc dimethyl dithiocarbamate

R05413 Zinc fluoroborate

R05414 Zinc mercaptobenzothiazole

R10802 Zinc naphthenate

R05416 Zinc octoate
UF Zinc octanoate

R01520 Zinc oxide

R05420 Zinc phosphate

R05421 Zinc phosphite

R01377 Zinc stearate

R01525 Zinc sulphide
UF Zinc sulfide

R01885 Zirconium(IV) chloride

R24104 Zirconium dicyclopentadienyl dichloride (04)

R01521 Zirconium(IV) oxide

Chemical Aspects

The Chemical Aspects can be used to define a compound chemically, for those cases where no specific concept is available. The Chemical Aspects can also be linked to generic codes and Polymer Type codes to define the compound further.

The Chemical Aspects consist of general terms, specific functionality terms which include the acid derivative terms, and the whole of the periodic table. The Acid Derivative terms provide more specific treatment of residues of common di- and poly- functional acid condensants. This is useful because it is often possible to tell, for example, that a terephthalic acid derivative has been used as a polymer former without knowing whether it is the free acid, the dimethyl ester or some other derivative. Graphical definitions of the specific functionality terms can be found in the Polymer Indexing Reference Manual.

All the Specific Compound Numbers and the generic codes in the Polymer Formers and Chemicals facets autogenerate the relevant Chemical Aspects. This enables very generic searching to be carried out, for example, an organic phosphorus ester containing chlorine. For a complete list of autogenerated Chemical Aspects see the Polymer Indexing Reference Manual.

All the element symbols represent codes, the single character elements having a '-' added to make them 2 characters e.g. "B-". Codes have been incorporated for general metal, transition metal and for each group of the periodic table. This will improve the specificity of the element codes, since they will only be indexed for the element, and not when only the group is claimed or exemplified.

Metal is defined as excluding the following:-

Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe.

Transition metals are defined as follows:-

Ac, Ag, Am, Au, Bk, Cd, Ce, Cf, Cm, Co, Cr, Cu, Dy, Er, Es, Eu, Fe, Fm, Gd, Hf, Hg, Ho, Ir, La, Lu, Lw, Md, Mn, Mo, Nb, Nd, Ni, No, Np, Os, Pa, Pd, Pm, Pr, Pt, Pu, Re, Rh, Ru, Sc, Sm, Ta, Tb, Tc, Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr.

Indexing Conventions

Chemical Aspects applied to a compound should cover the whole compound, including Carbon Count. However, if the valency of the element in a salt/complex is not known, then no Carbon Count will be applied.

For inorganic compounds, the code for inorganic, elements and the appropriate functionality terms will be applied. The term for 'salt' will NOT be applied to inorganic salts.

For organic compounds, no C or H element codes will be applied.

Aromatic is defined as carbocyclic, optionally fused and containing at least one benzene ring.

Concepts for C-C unsaturation do not include aromatic unsaturation.

The aspect Diolefinic implies that a compound contains 2 double bonds not necessarily polymerisable e.g. furan. The generic code G0817 Diolefinic and its specific terms within the hierarchy from the Polymer Formers facet are used to imply 2 polymerisable double bonds.

Chemical Aspects

General Terms

D00 Inorganic

D01 Organic

D02 Hydrocarbon

D03 Stereochemistry

D04 Isotope

D05 Bridged ring

D06 Spiro

D07 Tricyclic ring system
"Only applied to fused ring systems."

D08 Tetracyclic ring system and higher
"Only applied to fused ring systems."

D09 Elemental state

Generic Sub-units:
"When applied to fused ring systems these aspects are applied hierarchically as follows: Heterocyclic; Aromatic; Alicyclic."

D10 Aliphatic
D11 NT Saturated chain
D12" NT Unsaturated chain"
D26 NT Acrylic (96)
D27 NT Allyl (96)

D13 Alicyclic
D14 NT Monocyclic alicyclic"
D15 NT Cyclopentadienyl
D16 NT Bicyclic alicyclic
D17 NT Polycyclic alicyclic
D38 NT Adamantyl (04)
D39 NT Dicyclopentadienyl (04)
"3 ring alicyclic bridged ring."

D18 Aromatic
"Carbocyclic, optionally fused, containing at least one benzene ring."
D19 NT Benzene
D20 NT Naphthalene
D21 NT Polycyclic aromatic
D100 NT Indenyl (04)
"Bicyclic aromatic"
D80 NT Fluorenyl (04)
"Tricyclic aromatic"

D22 Heterocyclic

D23	NT	Monocyclic heterocyclic
D24	NT	Bicyclic heterocyclic
D25	NT	Polycyclic heterocyclic

Number of rings:
"Applied for the number of rings, regardless of type e.g. isolated, fused."

D31 1 Ring

D32 2 Rings

D33 3 Rings

D34 4 Rings

D35 ≥5 Rings

D96	NT	5 rings (04)"
D97	NT	6 rings (04)
D98	NT	7 rings (04)
D99	NT	≥8 rings (04)

Number of Atoms in Ring:
"Applied to individual rings or fused ring system. For example ethylene oxide is a 3-member ring, naphthalene is a 10-member ring, phthalic anhydride is a 9-member ring."

D73 3-member ring (96)

D74 4-member ring (96)

D75 5-member ring (96)

D76 6-member ring (96)

D77 7- 9 member ring (96)

D78 10-12 member ring (96)

D79 >12-member ring (96)

Atoms in Ring Systems:

D40 Ring contg no C

D41 Ring contg 1 N

D42 Ring contg 1 O

D43 Ring contg 1 S

D36 Ring contg 1 Si (96)

D44 Ring contg ≥1 P

D45 Ring contg >1 N

D46 Ring contg >1 O

D47 Ring contg >1 S

D37 Ring contg >1 Si (96)

D48 Ring containing other element
"Other than P, N, O, S, Si, C"

C–C Unsaturation

D50 No Unsaturation
"Absence of olefinic or acetylenic unsaturation"

D51 Unsaturation containing
D52 NT Acetylenic unsaturation
D53 NT Monoolefinic unsaturation
D54 NT Diolefinic unsaturation
D55 NT Triolefinic unsaturation and higher

D56 Conjugated unsaturation

D57 Nonconjugated unsaturation

D58 Terminal olefin unsaturation

D59 Internal olefin unsaturation

Broad Functionality Types:

D60 Acid
SA Carboxylic acid

D61 Salt/Complex
"Can be used with other aspects e.g. with phenolic for phenolates, with amine for amine salts"
D62 NT Metallocene
D72 NT Bridged metallocene (04)

D63 Ester
SA Carboxylic ester

D64 Acid halide
SA Carboxylic acid halide

D65 Acid anhydride
SA Carboxylic anhydride

D66 Radical

D67 Base
UF Alkali

D49 Lewis acid (96)

D68 Metal-C
"Metal excludes Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"

D69 Halogen-C

D70 Halogen-Metal

"Metal excludes Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"

D71 Hydrogen-Metal
"Metal excludes Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"

Carbon Count:

D81 Carbon count 1 C

D82 Carbon count 2 C

D83 Carbon count 3 C

D84 Carbon count 4 C

D85 Carbon count 5 C

D86 Carbon count 6 C

D87 Carbon count 7 C

D88 Carbon count 8 C

D89 Carbon count 9 C

D90 Carbon count 10 C

D91 Carbon count 11 C

D92 Carbon count 12 C

D93 Carbon count 13 C-18 C

D94 Carbon count 19 C-24 C

D95 Carbon count ≥25 C

D28	NT	25-30C (04)
D29	NT	31-40C (04)
D30	NT	≥41C (04)

Specific Functionality Terms Acid Derivatives

E00 Diacyl-

E01	NT	Malei-
E02	NT	Fumari-
E03	NT	Itaconi-
E04	NT	Citraconi-
E05	NT	Tetrahydrophthali-
E06	NT	Methyl tetrahydrophthali-
E07	NT	Nadi-
E08	NT	Methyl nadi-
E09	NT	Chlorendi-
E10	NT	Oxali-
E11	NT	Succini-
E12	NT	Glutari-
E13	NT	Adipi-

E14 NT Pimeli-
E15 NT Suberi-
E16 NT Azelai-
E17 NT Sebaci-
E18 NT Dodecanedioi-
E19 NT Phthali-
E20 NT Isophthali-
E21 NT Terephthali-
E22 NT Naphthalene diacyl-
E23 NT Sulphoisophthali-
E24 NT Hexahydrophthali-
E25 NT Methylhexahydrophthali-
E26 NT Tetrabromophthali-
E27 NT Tetrachlorophthali-
E28 NT Diacyl-, other

E30 Polyacyl-
E31 NT Trimelliti-
E32 NT Pyromelliti-
E33 NT Benzophenone tetracarboxylic derivatives
E34 NT Biphenyl tetracarboxylic derivatives
E36 NT Oxydiphthali- (96)
E37 NT Hexafluoroisopropylidene diphthali- (96)
E35 NT Polyacyl-, other

S:

F00 Sulphide
"-S-"

F01 Disulphide
"-S-S-"

F02 Trisulphide and higher
"-(S)n-"

F03 Episulphide

F04 Thiol
UF Mercaptan

F05 Thiocarboxylate
UF Dithiocarboxylate

F06 Thiocarbonate
UF Dithiocarbonate
UF Trithiocarbonate

N:

F07 Amine
F08 NT Monoamine
F09 NT Diamine

F10 NT Triamine and higher

F11 Hydrazine
UF Hydrazide

F12 Cyano
UF Nitrile

F13 Azo
UF Diazo

F14 Azide

F15 Imine

F16 Quaternary nitrogen

F17 Amidine

F18 Guanidine

F19 Triazinyl

F96 Carbodiimide (96)

F97 Aziridine (96)

F98 Diazide (96)

F99 Phthalocyanine (96)

O:

F20 Oxide

F21 Hydroxide

F22 Aldehyde

F23 Ketone

F24 Acetal
UF Ketal

F25 Ketene

F26 Alcohol
"Excluding phenolic"
F27 NT Monoalcohol
F28 NT Dihydroxy alcohol
F29 NT Trihydroxy alcohol and higher

F30 Phenolic
F31 NT Monophenol
F32 NT Diphenol
F33 NT Triphenol and higher

F34 Ether

F35 Carboxylic acid (salt)
UF Carboxylic acid salt
F36 NT Monocarboxylic acid
UF Monocarboxylic acid salt
F37 NT Dicarboxylic acid
UF Dicarboxylic acid salt
F38 NT Tricarboxylic acid and higher
UF Tricarboxylic acid salt and higher

F39 Carboxylic anhydride

F40 Carboxylic acid halide

F41 Carboxylic ester
"Acyclic C-O bond only"
F89 NT Monocarboxylic ester (96)
F90 NT Dicarboxylic ester (96)
F91 NT Tricarboxylic ester and higher (96)
SA Lactone

F42 Percarboxylate ester

F43 Lactone

F44 Carbonate

F45 Percarbonate

F46 Percarboxylic acid

F47 Epoxide
UF Oxirane

F48 Peroxide
UF Peroxy

F49 Haloformate (96)

P:

F50 Phosphine

F51 Phosphonium

PO/S:

F52 Phosphite

F53 Phosphate

F54 Phosphonate

F55 Thiophosphate
UF Dithiophosphate

F56 Thiophosphonate

UF Dithiophosphonate
UF Trithiophosphonate

SO:

F60 Sulphate
UF Sulphuric

F61 Sulphonyl

F62 Sulphonic
UF Sulphonate

F63 Sulphoxide

SN:

F64 Sulphonamide

F65 Sulphenamide

F66 Isothiocyanate

F67 Thiourethane

F68 Thiourea

NO:

F70 Carboxylic amide
"Acyclic C-N bond only"
F93 NT Monocarboxylic amide (96)
F94 NT Dicarboxylic amide (96)
F95 NT Tricarboxylic amide and higher (96)
SA Lactam

F71 Lactam

F72 Imide

F73 Isocyanate
F57 NT Monoisocyanate (04)
F58 NT Diisocyanate (04)
F59 NT Tri or higher isocyanate (04)

F74 Cyanate

F75 Nitro

F76 Hydroxylamine

F77 Urethane

F78 Urea

F79 Nitroso (96)

F92 Oxime (96)

F69 Oxime O-ether (04)
"=C=N-O-C! Non-functional C-bonded oxime"

F100 Amine oxide (04)
"R_3N-O"

Si:

F80 Silicate

F81 Si-O-Si

F82 Si-N-Si

F83 Si-H

F84 Si-OH

F85 Si-Halogen

F86 Si-C

F87 Si-O-C

F88 Si-Si (96)

Periodic Table:

H- Hydrogen

1A Group 1A
" Li, Na, K, Rb, Cs, Fr"

	UF	Alkali metals
Li	NT	Lithium
Na	NT	Sodium
K-	NT	Potassium
Rb	NT	Rubidium
Cs	NT	Cesium
Fr	NT	Francium

2A Group 2A
"Be, Mg, Ca, Sr, Ba, Ra"

	UF	Alkaline earth metals
Be	NT	Beryllium
Mg	NT	Magnesium
Ca	NT	Calcium
Sr	NT	Strontium
Ba	NT	Barium
Ra	NT	Radium

3A Group 3A
"B, Al, Ga, In, Tl"

B-	NT	Boron
Al	NT	Aluminium

Ga	NT	Gallium
In	NT	Indium
Tl	NT	Thallium

4A **Group 4A**

"C, Si, Ge, Sn, Pb"

C-	NT	Carbon
Si	NT	Silicon
Ge	NT	Germanium
Sn	NT	Tin
Pb	NT	Lead

5A **Group 5A**

"N, P, As, Sb, Bi"

N-	NT	Nitrogen
P-	NT	Phosphorus
As	NT	Arsenic
Sb	NT	Antimony
Bi	NT	Bismuth

6A **Group 6A**

"O, S, Se, Te, Po"

O-	NT	Oxygen
S-	NT	Sulphur
Se	NT	Selenium
Te	NT	Tellurium
Po	NT	Polonium

7A **Group 7A**

"F, Cl, Br, I, At"

	UF	Halogens
F-	NT	Fluorine
Cl	NT	Chlorine
Br	NT	Bromine
I-	NT	Iodine
At	NT	Astatine

00 **Group 0**

"He, Ne, Ar, Kr, Xe, Rn"

He	NT	Helium
Ne	NT	Neon
Ar	NT	Argon
Kr	NT	Krypton
Xe	NT	Xenon
Rn	NT	Radon

3B **Group 3B**

"Sc, Y""

Sc	NT	Scandium
Y-	NT	Yttrium

4B **Group 4B**

"Ti, Zr, Hf ""

Ti	NT	Titanium

Zr	NT	Zirconium
Hf	NT	Hafnium
5B	**Group 5B**	
	"V, Nb, Ta""	
V-	NT	Vanadium
Nb	NT	Niobium
Ta	NT	Tantalum
6B	**Group 6B**	
	"Cr, Mo, W""	
Cr	NT	Chromium
Mo	NT	Molybdenum
W-	NT	Tungsten
7B	**Group 7B**	
	"Mn, Tc, Re"	
Mn	NT	Manganese
Tc	NT	Technetium
Re	NT	Rhenium
8B	**Group 8B**	
	"Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt"	
Fe	NT	Iron
Ru	NT	Ruthenium
Os	NT	Osmium
Co	NT	Cobalt
Rh	NT	Rhodium
Ir	NT	Iridium
Ni	NT	Nickel
Pd	NT	Palladium
Pt	NT	Platinum
1B	**Group 1B**	
	"Cu, Ag, Au""	
Cu	NT	Copper
Ag	NT	Silver
Au	NT	Gold
2B	**Group 2B**	
	"Zn, Cd, Hg""	
Zn	NT	Zinc
d	NT	Cadmium
Hg	NT	Mercury
9A	**Group 9A**	
	UF	Lanthanides"
La	NT	Lanthanum
Ce	NT	Cerium
Pr	NT	Praseodymium
Nd	NT	Neodymium
Pm	NT	Promethium
Sm	NT	Samarium
Eu	NT	Europium

Gd	NT	Gadolinium
Tb	NT	Terbium
Dy	NT	Dysprosium
Ho	NT	Holmium
Er	NT	Erbium
Tm	NT	Thulium
Yb	NT	Ytterbium
Lu	NT	Lutetium

9B **Group 9B**

	UF	Actinides
Ac	NT	Actinium
Th	NT	Thorium
Pa	NT	Protactinium
U-	NT	Uranium
Np	NT	Neptunium
Pu	NT	Plutonium
Am	NT	Americium
Cm	NT	Curium
Bk	NT	Berkelium
Cf	NT	Californium
Es	NT	Einsteinium
Fm	NT	Fermium
Md	NT	Mendelevium
No	NT	Nobelium
Lw	NT	Lawrencium

Tr **Transition metal**

"Transition metals are defined as follows:- Ac, Ag, Am, Au, Bk, Cd, Ce, Cf, Cm, Co, Cr, Cu, Dy, Er, Es, Eu, Fe, Fm, Gd, Hf, Hg, Ho, Ir, La, Lu, Lw, Md, Mn, Mo, Nb, Nd, Ni, No, Np, Os, Pa, Pd, Pm, Pr, Pt, Pu, Re, Rh, Ru, Sc, Sm, Ta, Tb, Tc, Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr."

Gm **Metal general**

"Metal is defined as excluding the following:- Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"

Novelty

The concepts in this facet are designed to indicate the main area(s) of the invention covered by the patent.

At least one Novelty Descriptor code will be applied to each patent, but there is no limit as to how many may be applied.

The format of the Novelty Descriptors codes is NDnn.

ND00 Additive
"Used when an additive for a polymer is the novelty of the invention"

ND01 Application
"Used when the use of a polymer is the novelty of the invention"

ND02 Catalyst
"Used when a catalyst is the novelty of the invention"

ND03 Chemical process
"Used when a chemical process is the novelty of the invention"
UF Polymerisation process

ND04 Composition
"Used when a new polymer or polymer composition is the novelty of the invention"
UF Novel polymer

ND05 Equipment
"Used when equipment for processing polymer, additive or catalyst is the novelty of the invention"

ND06 Modified polymer
"Used when a modified polymer is the novelty of the invention"

ND07 Physical operation
"Used when a physical operation is the novelty of the invention"

ND08 Polymer former
"Used when a polymer former (monomer or condensant) is the novelty of the invention"
UF Monomer

ND09 Property
"Used when a property is the novelty of the invention"

ND10 Shape or form
"Used when shape or form of polymer, additive or catalyst is the novelty of the invention"

Universal Terms

The concepts in this facet are general, non-chemical terms which can be used in combination with any other term(s) to define a concept further. Thus, the radiation codes can be used with, for example, a crosslinking process, a polymerisation process, welding process or protective clothing to give a wide range of searchable concepts.

The concepts are arranged alphabetically and the format of the codes is Knnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Radiation which has been indexed should be searched using K9790-R. Searching K9790 will retrieve all references - indexed and autoposted.

See Also (SA) terms, which relate to concepts in a different facet, have the facet indicated in brackets after the term.

The concepts in the Interface hierarchy are used, for example, with the coating terms and for laminates, but not for the interface between polymer and additive.

The Reinforced concept is used for compositions, moulded articles etc., which are reinforced by addition of reinforcing agent(s) or reinforced by design.

Universal Terms

K9370 Ambient temperature
UF Room temperature
SA High temperature
SA Low temperature

K9961 Amphoteric (96)

K9381 Anisotropic
SA Optically anisotropic [properties]

K9392 Continuous

K9405 Corrugated

K9416 Design feature

K9427 Electric discharge
UF Corona discharge
UF Glow discharge
UF Plasma

K9438 Engineering resin

K9449 Filled resin

K9972 Fluidised bed (96)

K9450 High pressure
"Higher than 500 atmospheres"
SA Low pressure
SA Vacuum

K9461 High temperature
SA Ambient temperature
SA Low temperature

K9983 Honeycomb (96)
"Used when a honeycomb structure is present though not necessarily polymeric e.g. laminate containing graphite honeycomb core"

K9472 In-situ

K9483 Interface
"Surface on which a polymer is coated or face adjacent to polymer in a laminate or moulded article. Not used for interface between polymer and additive"
K9494 NT Ceramics interface
UF Porcelain interface
K9507 NT Composite board interface
UF Chipboard interface
UF Fibreboard interface
UF Hardboard interface
UF Plywood interface
K9994 NT Concrete interface (96)
K9518 NT Fabric interface

UF Fibre interface
SA Glass fabric interface
K9529 NT Glass interface
SA Glass fabric interface
K9530 NT Glass fabric interface
UF Glass fibre interface
K9541 NT Leather interface
K9552 NT Metal interface “Including pre-treated metal”
SA Wire interface
K9563 NT Paper interface
K9574 NT Polymer interface
K9585 NT Silicon interface
“Including pre-treated and doped silicon”
K9596 NT Wire interface
SA Metal interface
K9609 NT Wood interface
UF Plywood interface
UF Wood veneer interface
K9610 NT Interface, other

K9621 Ionic
“Used when stated”
K9632 NT Anionic
K9643 NT Cationic
K9303 NT Zwitterionic (96)
SA Non-ionic

K9314 Isotropic (96)

K9654 Low pressure
SA High pressure
SA Vacuum

K9665 Low temperature
UF Cold
SA Ambient temperature
SA High temperature

K9676 Multilayer structure
“Including non-polymeric layers”
K9687 NT Bi-layer structure
K9698 NT Tri-layer structure
K9701 NT Tetra-layer (or greater) structure
K9712 NT Polymeric exterior layer

K9723 Multistage
“A single processing step in several stages e.g. multistep injection moulding; but not forming a parison and then blow moulding”

K9325 Non-ionic (96)
SA Ionic

K9734 Polar
“Used when stated”
SA Bond properties [properties]

K9745 Polymer blend
UF Blend of polymers
UF Mixture of polymers
UF Polymer alloy
K9756 NT Compatible polymer blend
K9767 NT Interpenetrating polymer network
UF Snake-cage polymers
K9778 NT Incompatible polymer blend

K9789 Prepreg

K9790 Radiation
K9803 NT Ionising radiation
"Used for alpha-, beta-, gamma-rays and electron or neutron bombardment"
K9814 NT Electron beam
K9336 NT Gamma radiation (96)
"Approximate wavelength range: 5×10^{-14} - 10^{-11} m."
K9825 NT X-rays
"Approximate wavelength range: 5×10^{-12} - 10^{-8} m."
K9836 NT I R radiation
"Approximate wavelength range: 7.8×10^{-7} - 10^{-3} m."
UF Infra red radiation
K9847 NT Light radiation
K9858 NT Laser radiation
K9869 NT U V radiation
"Approximate wavelength range: 10^{-8} - 3.8×10^{-7} m."
UF Ultra violet radiation
UF UV radiation
K9870 NT Visible light radiation
"Approximate wavelength range: 3.8×10^{-7} - 7.8×10^{-7} m."
K9347 NT Radio frequency (96)
"Approximate wavelength range: 10^{-5} - 10^{-3} m."
UF R F
K9881 NT Microwave
"Approximate wavelength range: 10^{-3} - 0.3 m."

K9892 Reinforced

K9905 Safety
SA Protective clothing [applications]
SA Toxicity to humans [properties]

K9916 Synergism

K9927 Texture

K9938 Ultrasonic wave

K9949 Vacuum
SA High pressure
SA Low pressure

K9950 Waste material
"Used for non re-usable polymeric and non-polymeric material"
UF By-products
UF Non polymeric residue
UF Vat residues

Shape & Form

The Shape & Form terms can be applied to polymers, additives, catalysts and modifying agents. The hierarchies in this facet are arranged alphabetically and the format of the codes is Snnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Fibre which has been coded should be searched using S1070-R. Searching S1070 will retrieve all references - indexed and autoposted.

A special generic code, S9999, will be present in the online record whenever a Shape & Form code has been applied. This enables you to search for the presence of a Shape & Form code without specifying the type of shape or form.

Shape & Form

S1003 Cord
UF Rope

S1014 Dispersion
S1025 NT Emulsion
UF Aqueous dispersion
UF Latex
UF Oil-in-water dispersion
S1036 NT Organosol
"Stable dispersion of polymer in non-aqueous medium"
S1047 NT Paste
"Stable dispersion of polymer in plasticiser"
UF Plastisol
S1058 NT Slurry
"Unstable dispersion"
S1069 NT Water-in-oil dispersion

S1070 Fibre
UF Yarn
S1081 NT Braided fibre
S1092 NT Chopped fibre
UF Short fibre
UF Staple fibre
S1105 NT Conjugate fibre
UF Bicomponent fibre
UF Composite fibre
UF Heterofilament
UF Island-in-sea fibre
UF Side-by-side fibre
S1116 NT Sheath-core fibre
"Both sheath and core components must be polymeric"
S1127 NT Core of sheath-core fibre
S1138 NT Sheath of sheath-core fibre
S1149 NT Continuous fibre
UF Filament
UF Long fibre
S1150 NT Elastic fibre
UF Lycra
UF Spandex
S1161 NT Fabric
"Filament terms only used in addition when type of fibre is important"
S1172 NT Knitted fabric
S1183 NT Non-woven fabric
UF Felts
S1194 NT Woven fabric
S1694 NT Pile fabric (96)
SA Net
S1207 NT Hollow fibre
S1218 NT Monofilament
S1229 NT Non-circular fibre

"Including non-cellulosic pulp"
UF Plexifilament
UF Poly-lobal fibre
S1230 NT Fibrillated fibre
S1241 NT Microfibre
UF Melt blown fibre
S1252 NT Tapered fibre
S1263 NT Textile fibre
S1274 NT Textured fibre
UF Bulked fibre
UF Crimped fibre
UF False twisted fibre
SA Cord
SA Tyre Cord
SA Whisker

S1285 Film
"Solid, not fabric. Thin and flexible enough to be folded without permanent deformation"
S1296 NT Tubular film
SA Tube

S1309 Foam
S1310 NT Closed cell foam
S1321 NT Syntactic foam
S1332 NT Integral skin foam
S1343 NT Open cell foam
UF Reticulated foam

S1354 Honeycomb structure

S1365 Gel

S1376 Grease
UF Liquid at ambient temperature
UF Oil
UF Wax

S1387 Melt

S1398 Microballoon
"Hollow microcapsule"

S1401 Microcapsule
S1412 NT Microcapsule core
S1423 NT Microcapsule wall

S1434 Moulded article
UF Block
UF Slab

S1445 Net
SA Fabric

S1456 Particulate form
S1467 NT Bead

"Including beads resulting from suspension polymerisation"
S1478 NT Core-shell polymer
"Both core and shell components must be polymeric"
S1489 NT Core of core-shell polymer
S1490 NT Shell of core-shell polymer
S1503 NT Granule
S1514 NT Powder
UF Flour

S1525 Platelet
UF Flake

S1536 Preform
UF Blank
UF Parison
S1547 NT Pellet

S1558 Profile
UF I-beam profile
UF U-beam profile

S1569 Rod

S1570 Scale
"Undesirable deposits"
UF Pebbles

S1581 Sheet
"Solid, not fabric. Too thick to be folded without causing permanent deformation"

S1592 Sheet moulding compound
UF SMC
UF Bulk moulding compound
UF BMC
UF Dough moulding compound
UF DMC
UF Thick moulding compound
UF TMC

S1605 Solution
S1616 NT Aqueous solution
S1627 NT Organic solution
S1638 NT Syrup

S1649 Strip
UF Lace
UF Ribbon
S1650 NT Tape

S1661 Tube
SA Tubular film

S1672 Tyre cord
SA Filament

S1683 Whisker
SA Filament

Additives

The Additives facet contains all the functional concepts for additives. The chemical information relating to additives will be found in the Chemicals facet and the Chemical Aspects facet.

The use of the Additive terms is restricted to additives for polymers.

The concepts in this facet are arranged alphabetically and the format of the codes is Annn.

All Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Stabiliser which has been indexed should be searched using A486-R. Searching A486 will retrieve all references - indexed and autoposted.

A special generic code, A999, will be present in the online record whenever an Additive code has been applied. This enables you to search for the presence of an Additive, without specifying the type of additive.

Preparation of additives will be indexed using codes from the Chemical Processes facet or Physical Operation facets. The code C260 is used for catalysts for additive preparation.

Additives

A000 Absorbent
- UF Adsorbent
- A011 NT Oil absorbent
- A022 NT Water absorbent

Accelerator SEE Crosslinking accelerator
SEE Kicker

A033 Adhesion improver
- UF Bond improver
- UF Coupling agent
- UF Primer
- SA Tackifier

A044 Biological repellent
- UF Animal repellent
- UF Antimicrobial agent
- UF Antiseptic
- UF Bactericide
- UF Biocide
- UF Fungicide
- UF Herbicide
- UF Insecticide
- A055 NT Antifouling agent
  - SA Scale inhibitor

A066 Buffer

A077 Colouring agent
- UF Coloring agent
- UF Luminescent agents
- UF Reflective agents
- A088 NT Brightener
  - UF Delustrant
  - UF Flatting agent
  - UF Opacifier
  - UF Optical bleach
  - UF Whitening agent
- A099 NT Dye
- A102 NT Pigment
- SA Ink

A113 Compatibility improver

A124 Complexing agent
- UF Chelating agent
- UF Sequestering agent

A135 Conductivity imparting agent
"Additive used to impart electrical conductive property"
- SA Antistatic agent

A146 Crosslinking accelerator
UF Crosslinking activator

A157 Crosslinking agent
UF Crosslinking initiator
UF Curing agent
UF Vulcanising agent
UF Vulcanizing agent
A168 NT Friedel Crafts crosslinking agent
A179 NT Photocrosslinking agent
SA Photocatalyst [catalysts]

A180 Crosslinking retarder
UF Antigelling agent
UF Antiscorch agent
UF Blocking agent for crosslinking agent
UF Cure retarder

A191 Deodorant
SA Odorant

A204 Depolymerisation agent
UF Peptiser
UF Peptizer
UF Prodegradant

A215 Dyeing aid
UF Dye receptiveness improver
SA Colouring agent

A226 Extender
"Including oils for rubber"
SA Filler

A237 Filler
SA Conductivity imparting agent
SA Reinforcing agent

A248 Flame retardant
UF Fire proofer
A259 NT Burning drip retardant
SA Smoke reducer

A260 Foaming agent
UF Blowing agent
A271 NT Chemical foaming agent
A282 NT Volatile foaming agent
SA Intumescing agent
SA Kicker
SA Pore former

A293 Impact modifier

A306 Ink
"For polymer surface"

A317 Intumescing agent
UF Char former

A328 Kicker
UF Blowing agent accelerator
UF Foaming agent activator

A339 Low profile additive
UF Shrink reducing agent

A340 Lubricant
UF Oiling agent for fibres and textiles
A351 NT Mould release agent

A362 Nucleating agent
UF Seeding agent
SA Foam stabiliser

A373 Odorant
UF Fragrance
SA Deodorant

A384 Plasticiser
UF Plasticizer
SA Reactive diluent

A395 Pore former
"Includes solid particles which are removed to provide a porous structure"
SA Foaming agent

A408 Reactive diluent
SA Plasticiser

A419 Reinforcing agent
SA Filler

A420 Repellent
A431 NT Oil repellent
UF Plasticiser repellent
UF Plasticizer repellent
UF Solvent repellent
A442 NT Soil repellent
UF Stain repellant
A453 NT Water repellent
UF Water proofing agent
SA Biological repellent
SA Scale inhibitor

A464 Smoke reducer
SA Flame retardant

A475 Solvent
UF Diluent
UF Swelling agent

A486 Stabiliser
UF Stabilizer
UF Anti-ageing agent
A497 NT Antioxidant
A500 NT Antiozonant
A511 NT Heat stabiliser
A522 NT Hydrogen halide acceptor
A533 NT Ionising radiation stabiliser
"Use Ionising radiation universal terms as applicable"
UF Antirad
A544 NT Light stabiliser
"Use Light radiation universal terms as applicable"
UF Light absorbent
UF Photostabiliser
A555 NT Stabiliser, other

A566 Surfactant
A577 NT Antiblocking agent
"Material (usually powder) applied to polymer surface to reduce adhesiveness"
UF Dusting agent
UF Slip agent
A588 NT Antifoaming agent
A599 NT Antifog agent
A602 NT Antistatic agent
A613 NT Coagulant
A624 NT Dispersant
A635 NT Emulsifier
UF Detergent
UF Soap
UF Wetting agent
A646 NT Protective colloid
A657 NT Foam stabiliser
UF Cell stabiliser
A668 NT Scale inhibitor
SA Antifouling agent
A679 NT Surfactant, other

A680 Tackifier
SA Adhesion improver

A691 Viscosity modifier
A704 NT Gelling agent
SA Crosslinking agent
A715 NT Thickener
A726 NT Thixotrope
A737 NT Viscosity reducing agent
UF Viscosity depressant

A793 Additive of unspecified use (96)

A748 Additive, other

A759 Additive preparation

A760 Multifunctional additive

A771 Multiple additives with same function
"The presence of two or more additives having the same function in the same composition"

A782 Polymeric additive

Related terms from other facets:
C260 Catalyst for additive preparation [catalysts]

Catalysts

This facet includes catalysts, initiators and controllers used for polymerisation, polymer modification, polymer former preparation and additive preparation. Catalyst for catalyst preparation is not covered unless either the catalyst or the catalyst being prepared is polymeric.

The concepts cover both the type of catalyst and the type of reaction being catalysed, and any number of these codes may be used in combination. The chemical information relating to catalysts will be found in the Chemicals facet and the Chemical Aspects facet.

The codes for this facet are of the format Cnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Catalyst auxiliary which has been indexed should be searched using C113-R. Searching C113 will retrieve all references - indexed and autoposted.

See Also (SA) terms which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special general code, C999, will be present in the online record whenever a Catalyst code has been applied. This enables you to search for the presence of a Catalyst without specifying the type of catalyst.

For crosslinking catalysts and initiators, see Crosslinking agent and Crosslinking accelerator in the Additives facet.

Chain initiators, for example trimethylol propane for polyethers and polyetherurethanes, are regarded as modifying agents, rather than catalysts, initiators or controllers, or polymer formers.

Catalysts

C000 Catalyst
- UF Initiator

C011 NT Alfin catalyst
C022 NT Friedel Crafts catalyst
C033 NT Coordination catalyst
- UF Ziegler-Natta catalyst

C044 NT Biological catalyst
- UF Bacterial catalyst
- UF Enzyme catalyst
- UF Micro-organism catalyst

C055 NT Group transfer catalyst
C066 NT Phase transfer catalyst
C077 NT Photocatalyst
- UF Photoinitiator
- SA Free radical initiator
- SA Photocrosslinking agent [additives]

C088 NT Free radical initiator
C099 NT Redox initiator
- SA Photocatalyst

C102 NT Catalyst, other

C113 Catalyst auxiliary
C124 NT Cocatalyst
- UF Catalyst activator

C135 NT Electron donor
C146 NT Catalyst auxiliary, other

C340 Multiple catalysts with same function (96)
"The presence of two or more catalysts or catalyst auxiliaries having the same function in the same system"

C157 Catalyst preparation material

C168 Catalyst support

C179 Chain coupler
"Polyfunctional compound used to couple polymer chains"

C180 Blocking agent for polymer former
- SA Polymerisation inhibitor

C191 Polymerisation inhibitor
- UF Polymerization inhibitor
- SA Blocking agent for polymer former

C204 Chain stopper
- UF Catalyst deactivator

C215 Polymerisation regulator
- UF Chain transfer agent
- UF Molecular weight control agent
- UF Peak suppressor
- UF Polymerisation modifier
- UF Polymerization regulator

C226 Telogen

C237 Controller, other

C248 Catalyst preparation

C259 Catalyst for polymer former preparation

C260 Catalyst for additive preparation

C271 Catalyst for polymer modification

C282 Catalyst for natural polymer production

C293 Catalyst for polymerisation through C-C unsaturation only

C306 Catalyst for polymerisation NOT through C-C unsaturation

C317 Catalyst for polymerisation by reaction of C-C unsaturation with non C-C unsaturated functionality

C328 Catalyst for polymerisation involving ring opening

C339 Catalyst for polymerisation involving cyclisation

Related terms from other facets:

D62 Metallocene [chemical aspects]
D72 Bridged metallocene [chemical aspects]

Chemical Processes

The terms in the Chemical Processes facet can be used for polymers, polymer formers and additives. For polymers, there are also the corresponding modified terms in the Modified Polymers facet. The terms in this facet are not used for catalyst preparation, unless the catalyst is polymeric. This facet also contains all the polymerisation concepts and these can be used in conjunction with concepts such as amidation to define the bond formed during condensation polymerisation of a diacid and a diamine to produce a polyamide.

The concepts and hierarchies are arranged alphabetically and the codes in this facet have the format Lnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed rather than autoposted can be searched by adding '-R' to the end of the code; thus Halogenation which has been indexed should be searched using L2222-R. Searching L2222 will retrieve all references - indexed and autoposted.

A special generic code, L9999, will be present in the online record whenever a Chemical Process code has been applied. This enables you to search for the presence of a Chemical Process without specifying the type of process.

The terms in the equipment facet can be used in conjunction with any of the Chemical Process terms to provide searchable concepts for the equipment for these processes.

Metal is defined as excluding the following:-

Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe.

Chemical Processes

L2006 Acetalisation

L2017 Acrylation
"Reaction with any acrylic derivative. Used with other chemical process concepts as applicable"

L2028 Amidation
"Including urea group formation"

L2039 Amination

L2040 Ammoxidation

L2051 Boron incorporation
"Used for any process incorporating boron"

L2062 Carboxy group incorporation L2073

L2073 Crosslinking
UF Curing
UF Vulcanisation

L2084 Cyclisation
"Creation of ring by bond formation"

L2095 Degradation
L2108 NT Carbonisation
UF Pyrolysis
UF Thermal decomposition
L2119 NT Depolymerisation

L2120 Dehalogenation

L2131 Dehydrohalogenation

L2142 Doping
SA Metal incorporation

L2153 End group modification
L2164 NT End blocking

L2175 Epoxidation
"Used for formation or incorporation of epoxy group"

L2186 Esterification
"Reaction with carboxylic acid or derivative only"
L2197 NT Transesterification
UF Ester exchange
SA Acrylation
SA Halosulphonation
SA Maleinisation
SA Sulphonation

L2200 Etherification

L2211 Haloalkylation

L2222 Halogenation
L2233 NT Bromination
L2244 NT Chlorination
L2255 NT Fluorination
L2266 NT Iodination
SA Haloalkylation
SA Halosulphonation

L2277 Halosulphonation
UF Halosulfonation
UF Sulphohalogenation
UF Sulfohalogenation
L2288 NT Chlorosulphonation

L2299 Hydrocarbylation
"Formation of C-C bond. Not used for C-C addition polymerisation or metathesis polymerisation"
UF Alkylation
UF Arylation
SA Haloalkylation

L2846 Hydroformylation (96)
"The process of adding a hydroformyl group (H_2CO) to a molecule."

L2302 Hydrohalogenation

L2313 Hydrolysis
UF Alcoholysis
UF Glycolysis
UF Saponification

L2324 Hydroxy group incorporation
SA Hydrolysis

L2335 Imidation
SA Cyclisation

L2346 Isomerisation
UF Disproportionation
UF Rearrangement

L2357 Ketalisation

L2368 Maleinisation
"Reaction with any maleic derivative. Used with other chemical process concepts as applicable"

L2379 Metal incorporation
"Metal excludes Ar, As, B, Br, C, Cl, F, H, He, I, Kr, N, Ne, O, P, S, Se, Si, Te, Xe"
L2380 NT Metallation
"C-metal bond formation"
SA Boron incorporation
SA Phosphorus incorporation
SA Silicon incorporation

L2391 Modification of polymer

UF Polymer modification

L2404 Natural polymer production

L2415 Neutralisation

L2426 Nitration
"Addition of NO_2"

L2437 Oxidation
UF Ozonisation
L2448 NT Dehydrogenation

L2459 Oxyalkylation
UF Alkoxylation

L2460 Phosphorus incorporation
"Used for any process incorporating phosphorus"

L2471 Polymer former preparation
UF Monomer preparation

L2506 Polymerisation
"For reactions other than C-C addition or metathesis polymerisation, the concept(s) for the bond(s) formed should also be used, e.g. amidation for polyamide production"
UF Polymerization
L2517 NT Bulk polymerisation
UF Mass polymerisation
L2528 NT Copolymerisation
"Used for polymerisation of >1 polymer former"
L2539 NT Core-shell polymerisation
L2540 NT Electrolytic polymerisation
L2551 NT Emulsion polymerisation
L2562 NT Gaseous polymerisation
L2573 NT Homopolymerisation
"Used for polymerisation of a single polymer former"
L2584 NT Interfacial polymerisation
L2595 NT Oligomerisation
L2608 NT Dimerisation
L2619 NT Plasma polymerisation
L2620 NT Prepolymerisation
L2631 NT Residual polymer former polymerisation
UF Residual monomer polymerisation
L2642 NT Slurry polymerisation
"Polymer former(s) soluble, polymer formed insoluble"
L2653 NT Solid phase polymerisation
L2664 NT Solution polymerisation
"Polymer former(s) soluble, polymer formed soluble"
L2675 NT Suspension polymerisation
UF Bead polymerisation
UF Dispersion polymerisation
UF Granular polymerisation
L2686 NT Telomerisation
SA Cyclisation
SA Ring opening

L2700 Quaternisation

L2711 Reduction
L2722 NT Hydrogenation

L2733 Ring opening
L2744 NT Heterocyclic ring opening
L2755 NT Hydrocarbon ring opening

L2766 Silanation
"Formation of Si-C bond"
UF Silylation
SA Silicon incorporation

L2777 Silicon incorporation
"Used for any process incorporating silicon"
SA Silanation

L2788 Sulphation
UF Sulfation

L2799 Sulphonation
UF Sulfonation

L2802 Surface modification
"By chemical process only"

L2813 Unsaturation incorporation
"C-C unsaturation only"
SA Acrylation
SA Maleinisation

L2824 Urethanisation
UF Carbamylation

L2835 Chemical process, other

Related terms from other facets:
C271 Catalyst for polymer modification [catalysts]
H0157 Atom(s) incorporated in polymer by modification [polymer descriptors]
H0226 Modifying agent [polymer descriptors]
H0362 End functional polymer (04) [polymer descriptors]

Physical Operations

The Physical Operations facet contains all the processing terms.

The hierarchies and concepts are arranged alphabetically and the format of the codes in this facet is Nnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Moulding which has been indexed should be searched using N6440-R. Searching N6440 will retrieve all references - indexed and autoposted.

See Also (SA) terms which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special generic code, N9999, will be present in the online record whenever a Physical Operation code has been applied. This enables you to search for the presence of a Physical Operation without specifying the type of operation.

The terms in the Equipment facet can be used in conjunction with any of the Physical Operation terms to provide searchable concepts for the equipment for these processes.

In the Surface treating hierarchy, any number of the coating concepts may be used in combination; for example, coating with metal onto a polymer by sputtering would be covered by the following three concepts:- Coating by sputtering, Coating onto polymer and Coating with metal.

The products of these processes can be searched using the Surface treated terms from the Properties facet.

Physical Operations

N5709 Agitating
UF Stirring

N5710 Bleaching
UF Decolourising

N5721 Bonding
"Using an adhesive agent"
UF Adhering
N5732 NT Solvent welding
SA Heat sealing
SA Joining

N5743 Casting

N5754 Coalescing
UF Agglomerating

N5765 Colouring
N5776 NT Bulk colouring
UF Pigmenting
SA Masterbatching
N5787 NT Surface colouring
UF Dyeing
N5798 NT Printing
N5801 NT Solvent dyeing

N5812 Cooling
N5823 NT Quenching

N5834 Crimping
UF False twisting

N5845 Crystallising
SA Cooling
SA Heating

N5856 Defect preventing
UF Sag avoidance or removal

N5867 Densifying

N7341 Developing (04)
"Physical removal of resist, e.g. by dissolving. Dissolving also indexed if appropriate"

N5878 Dimensioning
"Used for shape or size control of products" SA Defect preventing
SA Defect preventing

N5889 Dissolving
N5890 NT Solution forming
SA Solution polymerisation *[chemical processes]*
N5903 NT Syrup forming

N5914 Drawing
UF Orienting"
UF Stretching
N5925 NT Biorienting
UF Biaxial drawing
N5936 NT Uniaxially orienting
SA Oriented *[properties]*

N5947 Emulsifying
UF Suspension forming"
SA Emulsion polymerisation *[chemical processes]*
SA Suspension polymerisation *[chemical processes]*

N5958 Equipment cleaning
"Used for cleaning of processing equipment"
SA Cleaning

N5969 Evacuating
SA Vacuum forming

N5970 Extruding
"Used for any process in an extruder, such as foaming"
N5981 NT Coextruding
N5992 NT Extrusion blowing

N6008 Fabric production
N6019 NT Knitting
N6020 NT Non-woven fabric production
N6031 NT Weaving

N6042 Fibre reinforced plastics lay-up
UF FRP lay-up
N6053 NT Filament winding
N6064 NT Pultrusion

N6075 Fibrillating

N6086 Foaming
UF Expanding
UF Pore forming

N6097 Forming
N6100 NT Cold forming
N6111 NT Thermoforming
N6122 NT Vacuum forming

N6133 Gelling
SA Crosslinking [chemical processes]

N6144 Granulating
UF Comminuting
SA Pelleting

N6155 Grinding

N6166 Heat sealing
UF Welding

N6177 Heating
N6188 NT Annealing
UF Heat treating
UF Stress relaxing
N6199 NT Heat setting
N6202 NT Melting
SA Heat sealing
N6213 NT Preheating
N6224 NT Sintering
SA Shrinking
SA Temperature control

N6235 Insert incorporating

N6246 Joining
UF Bolting
UF Connecting
SA Bonding
SA Heat sealing

N6257 Labelling

N6268 Machining
N6279 NT Cutting
N6280 NT Deflashing
UF Burr removal
UF Trimming
N6291 NT Drilling
N6304 NT Perforating
N6315 NT Punching
SA Granulating

N6326 Masterbatching

N6337 Material handling
N6348 NT Conveying
N6359 NT Ejecting
N6360 NT Feeding
N6371 NT Wind up
"Including wind up of film, tape, fibre"

N6382 Measuring
N6393 NT Gravimetric measuring
UF Dosing
N6406 NT Temperature measuring
N6417 NT Volumetric measuring
UF Metering
SA Testing

N6428 Melt blowing
"Used for production of fibres"

N6439 Mixing
UF Blending
SA Masterbatching

N6440 Moulding
N6451 NT Blow moulding
N6462 NT Compression moulding
SA Stamping
N6473 NT Dip moulding
N6484 NT Injection moulding
N6495 NT Outsert injection moulding
UF Injection moulding onto inlays
N6508 NT Reaction injection moulding
UF RIM
N6519 NT Reinforced reaction injection moulding
UF RRIM
N6520 NT Rotational moulding
UF Centrifugal casting
N6531 NT Slush moulding
N7307 NT Stereographic moulding (96)
"Process used to produce a three-dimensional polymer form by sequential polymerising or curing, usually by computer control, onto a previously polymerised or cured surface, thus 'building-up' a three-dimensional moulding."
N6542 NT Transfer moulding
SA Casting
SA Tyre production

N6553 Nucleating
UF Seeding

N6564 pH control

N6575 Pollution control
"Applicable to any process"
SA Waste treating

N6586 Preforming
N6597 NT Pelleting
SA Granulating

N6600 Pressing
UF Compressing
SA Stamping

N6611 Process control
N6622 NT Automation
UF Computer control
N6633 NT Temperature control
SA pH control

N6644 Purging
UF Flushing

N6655 Purifying
N6666 NT Catalyst removing
N6677 NT Centrifuging
N6688 NT Cleaning
N6699 NT Coagulating
N6702 NT Concentrating
N6713 NT Decanting

N6724 NT Degassing
N7318 NT Deliquefying (96)
UF Dewatering
N6735 NT Distilling
N6746 NT Flash vaporising
N6757 NT Fractional distilling
N6768 NT Steam distilling
N6779 NT Stripping
N6780 NT Drying
N6791 NT Spray drying
N6804 NT Filtering
N6815 NT Ultrafiltering
N6826 NT Polymer former removing
UF Monomer removing
N6837 NT Polymer fractionating
N6848 NT Precipitating
N6859 NT Regenerating
N6860 NT Solvent removing
N6871 NT Sterilising
N6882 NT Washing
N6893 NT Purifying, other
SA Crystallising
SA Purging
SA Residual polymer former polymerisation [chemical processes]

N6906 Recycling
"Processing of used products to make other products, either the same or different"
SA Reuse of scrap

N6917 Repairing

N6928 Reuse of scrap
"Collection and reuse of materials during production processes; includes solvent recycling"
SA Pollution control
SA Recycling
SA Waste treating

N6939 Rolling
N6940 NT Calendering

N6951 Shrinking

N6962 Spinning
N6973 NT Dry spinning
UF Evaporative spinning
N6984 NT Flash spinning
N6995 NT Wet spinning
UF Coagulative spinning
UF Dry-wet spinning

N7001 Stamping

N7012 Storing
"Used for polymers, polymer formers, catalysts, additives and intermediates"

N7023 Surface treating

N7034 NT Coating
N7045 NT Coating by dipping
UF Coating by immersion
N7056 NT Coating by electrodeposition
UF Electrostatic coating
SA Electroplating
N7067 NT Coating by spraying
UF Flame spraying
N7078 NT Coating by spreading
N7329 NT Spin coating (96)
N7089 NT Coating by sputtering
N7090 NT Coating onto polymer
N7103 NT Coating with metal
UF Metallising
N7114 NT Electroless deposition
N7125 NT Electroplating
N7136 NT Coating with non-polymer
SA Coating with polymer
SA Coating with metal
N7147 NT Coating with polymer
SA Coating with polymer former(s)
N7158 NT Coating with polymer former(s)
UF Coating with monomer(s)
SA Coating with polymer
N7169 NT Embossing
N7170 NT Encapsulating
N7181 NT Etching
N7192 NT Laminating
N7205 NT Lining
N7330 NT Microencapsulating (96)
N7216 NT Polishing
N7227 NT Surface treating, other
SA Stamping
SA Surface colouring
SA Surface modification [chemical processes]

N7238 Testing

N7249 NT Analytical techniques

N7250 Twisting

SA Crimping

N7261 Tyre production

"Used for moulding and associated processes"

N7272 Venting

N7283 Waste treating

SA Pollution control

N7294 Physical operation, other

Equipment

The Equipment terms are designed to be used in conjunction with one or more Chemical Process term or Physical Operation term, thus providing a range of equipment concepts equivalent to the range of processes and operations. In 2004 some specific equipment concepts were introduced to aid retrieval.

The codes in this facet have the format Jnnnn.

All Narrower terms (NT) autopost generic terms.

A special generic code, J9999, will be present in the online record whenever an Equipment code has been applied. This enables you to search for the presence of Equipment without specifying the type of equipment.

Equipment

J2904 Construction materials of equipment

J2915 Equipment

J2926 NT Autoclaves
J7034 NT Coating equipment (04)
J5812 NT Cooler/Heat exchanger (04)
J6780 NT Dryer (04)
UF Spray dryer
J6611 NT Equipment control devices (04)
UF Devices which measure/control temperature, pressure, etc. during other processes
J8366 NT Equipment for making packaging (04)
J5970 NT Extruder (04)
J6804 NT Filter (04)
UF Breaker plate
J2937 NT Fluidised bed reactor
J6337 NT Material handling equipment (04)
UF Inlet equipment, feeding units, dosers
UF Outlet equipment, wind-up units
J6439 NT Mixing unit (04
UF Mixing heads
UF Kneader
J6440 NT Moulding equipment (04)
"For moulds use J2948 in addition"
J6484 NT Injection moulder (04
J6451 NT Blow moulder (04)
J2948 NT Moulds
"Any mould used for polymer processing or polymerisation"
J2506 NT Polymerisation reactor (04)
J2959 NT Pumps
J2960 NT Rollers
J2971 NT Tubular reactor

Related terms in other facets:

N5958 Equipment cleaning [physical operations]
K9972 Fluidised bed [universal terms]

Properties

The Properties facet contains concepts arranged hierarchically in alphabetical order. The format of the codes in this facet is Bnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus Optical properties which has been indexed should be searched using B4240-R. Searching B4240 will retrieve all references - indexed and autoposted.

A special generic code, B9999, will be present in the online record whenever a Properties code has been applied. This enables you to search for the presence of a Property without specifying the type of property.

These concepts are principally used to describe the properties of polymers, but they may be used for additives, catalysts and modifying agents when the property is important, for example, particle size of a filler.

The presence of an additive within a composition, will not automatically result in the indexing of the corresponding property. The Property codes will only be applied when the property is important.

Properties

B3009 Chemical effects on other materials

B3010 Degradability

B3021 NT Biological degradability
UF Biodegradable
B3032 NT Chemical degradability
B3043 NT Degradability by detergents
B3054 NT Degradability by foodstuffs
UF Degradability by beverages
B3065 NT Degradability by oils
UF Degradability by fats
UF Degradability by greases
B3076 NT Degradability by organic solvents
B3087 NT Ionising radiation degradability
"Use Ionising radiation universal terms as applicable"
B3098 NT Light degradability
"Use Light radiation universal terms as applicable"
B3101 NT Oxygen degradability
B3112 NT Ozone degradability
B3123 NT Thermal degradability
B3134 NT Ultrasonic degradability
B3145 NT Water degradability
B3156 NT Weather degradability
"Heat, light, oxygen and moisture degradation in combination over long time period"
UF Atmospheric degradability
B3167 NT Degradation by other agents or effects
SA Discolour
SA Stability

B3178 Dependence of properties on temperature

"Can be used with Ambient, High or Low temperature universal terms"
UF Temperature dependence of properties
SA Thermal properties

B3189 Dependence of properties on time or frequency

UF Time dependence of properties
UF Frequency dependence of properties

B3190 Electrical properties

B3203 NT Dielectric properties
B3214 NT Dielectric constant
UF Dissipation factor
UF Permittivity
UF Power factor
B3225 NT Dielectric strength
UF Dielectric breakdown
B3236 NT Discharge effects
B3247 NT Arc resistance
B3258 NT Tracking
UF Water treeing

B3269	NT	Electrical conductivity
B3270	NT	Electrically insulating
	UF	Resistivity
B3281	NT	Electromagnetic shielding
B3292	NT	Electrostatics
B3305	NT	Antistatic
B3316	NT	Spark hazards
B3327	NT	Magnetic
B3338	NT	Piezoelectric
B3349	NT	Pyroelectric
B3350	NT	Semiconductivity
B3361	NT	Electrical property, other
	SA	Electroluminescence
	SA	Radiation opaque
	SA	Radiation sensitive/reactive
	SA	Radiation transparent

B3372 Environmental relationship

B3383	NT	Absorption
	UF	Adsorption
	UF	Swellability
B3394	NT	Oil absorption
	UF	Lipophilic
	UF	Plasticiser absorption
	UF	Solvent absorption
B3407	NT	Water absorption
	UF	Hydrophilic
	SA	Absorption of light
	SA	Hydrophilic-lipophilic balance
B3418	NT	Compatibility
B3429	NT	Colour fastness
B3430	NT	Dispersibility
B3441	NT	Hydrophilic-lipophilic balance
	UF	HLB
B3452	NT	Insolubility
B3463	NT	Water insolubility
B3474	NT	Lack of compatibility
	UF	Bleeding
	UF	Blooming
	UF	Sweating
B3485	NT	Repellence
	UF	Soil repellence
B3496	NT	Oil repellence
	UF	Lipophobic
	UF	Plasticiser repellence
	UF	Solvent repellence
B3509	NT	Water repellence
	UF	Hydrophobic
	UF	Water proof
B3510	NT	Solubility
B5630	NT	Organic solvent solubility (96)
B3521	NT	Water solubility

B5641 NT Acid solubility (96)
B5652 NT Alkali solubility (96)
B3532 NT Storage stability
UF Pot life
UF Shelf life

B3543 Flammability
UF Inflammability
SA Non-flammability

B3554 Flow properties
B3565 NT Extrusion behaviour
UF Die swell
UF Extrusion defects
B3576 NT Flow birefringence
B3587 NT Grease viscosity
UF Oil viscosity
UF Wax viscosity
B3598 NT Latex viscosity
B3601 NT Melt flow index
UF Melt flow rate
UF MFI
B3612 NT Melt viscosity
UF High shear melt viscosity
UF Melt elasticity
UF Mooney plasticity
UF Mooney viscosity
B3623 NT Mouldability
UF Processability
B3634 NT Organosol viscosity
B3645 NT Paste viscosity
B3656 NT Powder flow
B3667 NT Scorch
UF Mooney scorch
B3678 NT Solution viscosity
UF Inherent viscosity
UF Intrinsic viscosity
UF Relative viscosity
UF Reduced viscosity
UF Specific viscosity
B3689 NT Thixotropic properties

B3690 Impurity
B3703 NT Catalyst content
UF Ash content
B3714 NT Moisture content
B3725 NT Monomer content
B3736 NT Solvent content
SA Purity

B3747 Mechanical properties

B3758 NT Dimensional stability
UF Warpage
B3769 NT Antipilling resistance
B3770 NT Crease resistance
UF Wash-wear properties
SA Elastic memory
B3781 NT Friability
B3792 NT Hardness
UF Barcol hardness
UF Rockwell hardness
UF Shore hardness
B3805 NT Machinability
UF Punchability
B3816 NT Scratch resistance
B3827 NT Softness
B3838 NT Stress-strain properties
UF Viscoelasticity
B3849 NT Cracking
UF Crazing
UF Fracture surfaces
B3850 NT Environmental stress cracking
B3861 NT Stress cracking
B3872 NT Creep and creep recovery
UF Cold flow
UF Compression set
UF Permanent set
UF Solid flow
B3883 NT Drawability in solid state
UF Necking
B3894 NT Elastic memory
UF Shape memory
B3907 NT Elongation
B3918 NT Fatigue
UF Flex-life
UF Folding endurance
B3929 NT Green strength of rubber
B3930 NT Rigidity properties
UF Compliance
UF Elasticity
UF Elastic modulus
UF Secant moduli
B3941 NT Bulk modulus
UF Compressibility
B3952 NT Compression modulus
B3963 NT Dynamic mechanical properties
UF Coefficient of restitution
UF Vibration measurements

B3974 NT Acoustic properties
B3985 NT Sound absorbing
B3996 NT Sound wave velocity
B4002 NT Dynamic loss properties
UF Damping
UF Heat build-up
UF Hysteresis
UF Internal friction
UF Mechanical losses
SA Fatigue
SA Sound absorbing
B4013 NT Dynamic modulus
B4024 NT Resilience
UF Rebound resilience
B4035 NT Flexibility
UF Fabric drapability
B4046 NT Flexural modulus
B4057 NT Poisson's ratio
B4068 NT Shear modulus
UF Modulus of rigidity
UF Torsion modulus
B4079 NT Stiffness
UF Rigidity
B4080 NT Tensile modulus
UF Percentage modulus
UF Young's modulus
B4091 NT Strength
B4104 NT Brittleness
B4115 NT Bursting strength
B4126 NT Compressive strength
B4137 NT Ductility
B4148 NT Flexural strength
UF Bending strength
UF Cross-breaking strength
B4159 NT Impact strength
B4160 NT Shear strength
B4171 NT Tensile strength
UF Knot strength
UF Tenacity
B4182 NT Tear strength
UF Puncture resistance
B4193 NT Toughness
B4206 NT Stress relaxation
B4217 NT Stress/strain curves
B4228 NT Yield point

B4239 Non-flammability
SA Flammability

B4240 Optical properties

B4251 NT Absorption of light
"Use Light radiation universal terms as applicable"
B4262 NT Colour
UF Colourless
B4273 NT Discolour
B4284 NT Electro-optical
UF Kerr effects
B5696 NT Electroluminescence (04)
B4295 NT Haze
UF Distortion on transmission
B4308 NT Luminescence
UF Fluorescence
UF Phosphorescence
B4319 NT Magneto-optical
B4320 NT Optical activity
B4331 NT Optically anisotropic
UF Liquid crystal properties
UF Mesomorphic
UF Thermotropic
B4342 NT Optical polarity
B4353 NT Photochromic
B4364 NT Photoelasticity
B4375 NT Radiation opaque
"Use Radiation universal terms as applicable"
B4386 NT Radiation sensitive/reactive
"Use Radiation universal terms as applicable"
SA Radiation sensitive photographic polymers [applications]
B5663 NT Radiation translucent (96)
"Use Radiation universal terms as applicable"
B4397 NT Radiation transparent
"Use Radiation universal terms as applicable"
B4400 NT Reflectivity
UF Mattress distortion on reflection
UF Scattering on reflection
B4411 NT Gloss
UF Lustre
B4422 NT Matt
B4433 NT Pearlescence
UF Iridescence
B4444 NT Refractive index
UF Double refraction
UF Optical birefringence
B5674 NT Second order nonlinearity (96)
B4455 NT Optical property, other

B4466 Physiological properties

B4477 NT Non-toxic effect on non-human organisms
SA Toxic effect on non-human organisms
B4488 NT Non-toxic to humans
UF Biocompatible

		UF	Non-thrombogenic
		SA	Toxicity to humans
B4499	NT	Smell	
		UF	Odour
		UF	Odourless
B4502	NT	Taste	
B4513	NT	Toxic effect on non-human organisms	
		SA	Non-toxic effect on non-human organisms
B4524	NT	Toxicity to humans	
		UF	Carcinogenic
		UF	Dermatitic
		SA	Non-toxic to humans

B4535 Purity

	SA	Impurity

B4546 Smoke generation

	SA	Smoke suppression

B4557 Smoke suppression

	SA	Smoke generation

B4568 Stability

	UF	Ageing resistance
B4579	NT	Biological stability
B4580	NT	Chemical resistance
B4591	NT	Corrosion resistance
B4604	NT	Ionising radiation stability
	“Use Ionising radiation universal terms as applicable”	
B4615	NT	Light stability
	“Use Light radiation universal terms as applicable”	
B4626	NT	Organic solvent resistance
B4637	NT	Oxygen stability
B4648	NT	Ozone stability
B4659	NT	Stability to detergents
B4660	NT	Stability to foodstuffs
		UF Stability to beverages
B4671	NT	Stability to oils
		UF Stability to fats
		UF Stability to greases
B4682	NT	Thermal stability
		UF Heat resistance
B4693	NT	Ultrasonic stability
B4706	NT	Water stability
		UF Hydrolysis resistant
B4717		NT Moisture resistance
B4728	NT	Weatherability
	“Heat, light, oxygen and moisture stability in combination over long time period”	
		UF Atmospheric stability
B4739	NT	Stability to other agents or effects
	SA	Degradability

B4740 Structural properties

B4751 NT Acid number
"The number of mg of KOH equivalent to the acidity present in 1 gm of resin"
SA Hydroxy number
B4762 NT Bond properties
UF Bond polarisability
UF Dipole moments
UF Force constants
UF Refractivity
B4773 NT Crystalline properties
B4784 NT Amorphous
B4795 NT Crystalline
B4808 NT Crystal structure
UF Chain repeat distance
UF Electron diffraction patterns
UF Unit cell dimensions
UF X-ray diffraction spacings
B4819 NT Rates of crystallisation and melting
UF Kinetics of crystallisation and melting
B4820 NT Size, shape, arrangement of crystalline phase
SA Linkage
B4831 NT Density
B4842 NT Bulk density
B4853 NT Diffusion properties
B4864 NT Impermeability
B4875 NT Permeability
B4886 NT Semipermeability
B4897 NT Heat set
SA Non heat set
B4900 NT Hydroxy number
SA Acid number
B4911 NT Inter and intra molecular forces
UF Chain flexibility
UF Cohesive energy density
UF Steric hindrance
B4922 NT Linkage
B4933 NT Random
B4944 UF Atactic
NT Stereoregular
B4955 NT Isotactic
B4966 NT Syndiotactic
SA Crystalline properties
B4977 NT Molecular properties
B4988 NT Curable
B4999 NT Self-curable
B5005 NT Degree of branching
UF Branching distribution
SA Dendrimer"
B5016 NT Degree of crosslinking
UF Reversion crosslinking
B5027 NT Uncrosslinked

			UF Unvulcanised
B5038		NT	Degree of types of polymer structure
B5049			NT 1,2 or 3,4 diene polymer
B5050			NT 1,4 diene polymer
B5061			NT Cis polymer"
B5072			NT Trans polymer
B5083		NT	Degree of unsaturation
			UF Iodine value of polymer
B5094		NT	Molecular weight
			UF K value
			UF Polymerisation degree
B5107		NT	Molecular weight distribution
B5118			NT Polydispersity
			UF Multi-modal
B5129		NT	Rate of crosslinking
B5130	NT	Non heat set	
		SA	Heat set
B5141	NT	Non-porous	
		SA	Porous
B5152	NT	Oriented	
B5163		NT	Biaxially oriented
B5174		NT	Uniaxially oriented
		SA	Unoriented
B5185	NT	Particles properties	
B5196		NT	Particle shape
B5209		NT	Particle size
			UF Particle size distribution
B5210		NT	Particle structure
B5221"	NT	Porous	
		SA	Non-porous
B5232	NT	Resonance	
		UF	Electron spin
		UF	NMR
B5243	NT	Thickness	
B5254		NT	Denier
B5265	NT	Unoriented	
		SA	Oriented

B5276 Surface properties

B5287	NT	Abrasion resistance	
		UF	Wear resistance
B5298	NT	Adhesive properties	
B5301		NT	Adhesiveness
			UF Tack
B5312		NT	Heat-seal strength
			UF Weld strength
B5323		NT	Lack of adhesion
			UF Non-tack
B5334		NT	Strippability
			UF Peelability
B5345	NT	Blocking	

UF Cling
SA Non-blocking

B5356 NT Dyeability
UF Colour receptiveness
UF Printability

B5367 NT Friction

B5685 NT Non-blocking (96)
SA Blocking

B5378 NT Surface irregularities

B5389 NT Surface smoothness

B5390 NT Surface tension

B5403 NT Surface treated

B5414 NT Coated

B5425 NT Coated with metal
UF Metallised

B5436 NT Coated with non-polymer

B5447 NT Coated with polymer

B5458 NT Embossed

B5469 NT Etched

B5470 NT Polished

B5481 NT Printed

B5492 NT Surface treated, other

B5505 Thermal properties

B5516 NT Specific heat

B5527 NT Thermal conductivity

B5538 NT Thermal expansion

B5549 NT Thermally insulating

B5550 NT Thermal shrinkage

B5561 NT Thermal shock resistance
UF Heat shock resistance
SA Dependence of properties on temperature

B5572 Transition points

B5583 NT Differential thermal analysis
UF DTA

B5594 NT Heat distortion point

B5607 NT Melting point

B5618 NT Rubber/glass transition point

B5629 NT Softening point
UF Vicat softening point

Applications

The Applications facet contains a wide range of application concepts arranged hierarchically in alphabetical order.

The format of the Applications codes is Qnnnn.

All the Narrower terms (NT) autopost the more generic term(s). Generic terms which are actually indexed, rather than autoposted, can be searched by adding '-R' to the end of the code; thus searching Adhesives which has been indexed should be searched using Q6644-R. Searching Q6644 will retrieve all references - indexed and autoposted.

See Also (SA) terms, which relate to concepts in a different facet have the facet indicated in brackets after the term.

A special generic code, Q9999, will be present in the online record whenever an Applications code has been applied. This enables you to search for the presence of an Application without specifying the type of application.

Indexing Conventions:

In photographic patents, additives are only indexed when they are additives to the polymer, rather than components of the photographic composition.

Magnetic material in magnetic recording compositions is not indexed unless it is polymeric.

Applications

Q6600 Abrasive compositions
- UF Abrasive paper
- UF Grinding wheels
- UF Sandpaper

Q9370 Absorbents (96)
"Use with properties as appropriate"
- SA Cleaning materials
- SA Medical use
- SA Pollution control

Q6611 Acoustic use
- Q6622 NT Acoustic insulation
  - UF Sound proofing
- SA Electro-acoustic use
- SA Musical instruments
- SA Recording media

Q6633 Adhesive tape

Q6644 Adhesives
- Q6655 NT Anaerobic adhesive
- Q6666 NT Hot melt adhesive
- Q6677 NT Pressure sensitive adhesive
- Q6688 NT Thermosetting adhesive
- SA Abrasive compositions
- SA Adhesive tape
- SA Binders
- SA Sealants

Q6699 Aerosol compositions
- SA Aerosol containers

Q6702 Agriculture
- UF Horticulture
- Q6713 NT Cloches
- Q6724 NT Fertilisers
  - UF Fertilizers
- Q6735 NT Greenhouses
- Q6746 NT Herbicides
- Q6757 NT Mulch
- Q6768 NT Agriculture, other
- SA Mariculture
- SA Pesticide
- SA Veterinary use

Q6779 Armaments
- SA Explosives
- SA Military use
- SA Propellents
- SA Rockets

Q6780 Barrier layers
"Where surface(s) is specified see interface terms"
SA Coatings
SA Impermeability [properties]
SA Laminates
SA Linings
SA Tie layers

Q6791 Binders

Q6804 Bookbinding

Q6815 Brushes

Q6826 Buildings
Q6837 NT Building fittings
SA Doors
SA Window frames
Q6848 NT Flooring
Q6859 NT Rainwater goods
UF Guttering
Q6860 NT Roofing
Q6871 NT Sanitary ware
UF Baths
UF Basins
UF Lavatory ware
Q6882 NT Lavatory cisterns
Q6893 NT Walls and coverings
UF Ceilings
UF Wallpaper
SA Acoustic insulation
SA Civil engineering
SA Glazing
SA Solar heat collectors
SA Thermal insulation

Q6906 Carpets
SA Textiles

Q6917 Catalysts
UF Catalyst supports

Q6928 Ceramics use
"Polymer used in; includes polymer used in glass, but excludes polymer coatings on ceramics and glass"

Q6939 Chemical engineering
Q6940 NT Heat exchange devices
SA Solar heat collectors
Q6951 NT Water treatment
UF Water treatment compositions
Q6962 NT Scale inhibiting compositions
Q6973 NT Chemical engineering, other

Q6984 Chemical reagents

Q6995 Civil engineering
Q7001 NT Concrete
UF Cement compositions
Q7012 NT Road compositions
UF Paving
UF Runway compositions
Q7023 NT Civil engineering, other
SA Earth consolidation
Q7034 Cleaning materials
"Including wipes and wiping materials"
UF Cleaning compositions
Q7045 NT Detergents
UF Fabric conditioners
SA Absorbants
SA Disinfectant
SA Polyelectrolytes
SA Surfactant
SA Toilet requisites

Q7056 Clothing
Q7067 NT Footwear
UF Boots
UF Shoes
Q7078 NT Gloves
Q7089 NT Hosiery
UF Socks
UF Stockings
UF Tights
Q7090 NT Protective clothing
UF Eyeshields
UF Goggles
UF Helmets
Q7103 NT Clothing, other
SA Fasteners
SA Textiles

Q7114 Coatings
"Where surface(s) is specified see interface terms"
Q7125 NT Antifouling coating/paint
Q7136 NT Corrosion prevention coating/ paint
Q7147 NT Gel coatings
Q7158 NT Paints
Q7169 NT Aqueous paints
Q7170 NT Solvent based paints
UF Lacquers
UF Varnishes
Q7181 NT Polishes
Q7192 NT Primer coating
Q7205 NT Release coatings
Q7216 NT Sizes
"Only used for external sizes"
Q7227 NT Strippable coatings

Q7238 NT Thixotropic coating/paints
UF Non-drip paint
SA Laminates
SA Linings
SA Masking compositions

Q7249 Composite board
UF Chipboard
UF Fibreboard
UF Hardboard
UF Plywood
SA Decorative laminates

Q7250 Controlled release devices
UF Controlled release compositions

Q7261 Dental use
SA Dental toilet requisites
SA Medical use

Q7272 Disinfectant

Q7283 Display
UF Advertising

Q7294 Disposable use

Q7307 Doors

Drums
SEE Tanks
SEE Musical instruments

Q7318 Earth consolidation
UF Geotextiles

Q7329 Educational devices
UF Models

Q7330 Electrical engineering
Q7341 NT Batteries
UF Electrical accumulators
UF Storage batteries
Q7352 NT Cable sheathing
UF Electrical cable coatings
UF Electrical wire coatings
SA Electrical insulation
Q7363 NT Capacitors
UF Condensers
Q7374 NT Electrical insulation
Q7385 NT Insulation tape
Q7396 NT Electrochemical cells
UF Electrolytic cells
UF Electrophoresis cells
Q7409 NT Electrodes

Q9381 NT Electro-magnetic shielding applications (96)
"Including radio-wave absorbers and reflectors"
Q7410 NT Fuel cells
Q7421 NT Magnetic devices
Q7432 NT Electric generator
Q7443 NT Electric motor
SA Magnetic recording media
Q9392 NT Piezoelectric devices (96)
Q7454 NT Printed circuits
Q7465 NT Resistors
Q7476 NT Semiconductor devices
UF Integrated circuits
Q7487 NT Waveguides
Q7498 NT Electrical engineering, other
SA Electro-acoustic use
SA Electro-optical use
SA Encapsulated article
SA Heat and temperature applications
SA Radomes
SA Recording media

Q7501 Electro-acoustic use
UF Microphones
UF Speakers
SA Acoustic use

Q7512 Electro-optical use
UF Cathode ray tubes
UF Light Emitting Diodes (LED)
UF Solar cells
Q9472 NT Electroluminescent Devices (04)
UF Organic Light Emitting Diodes (OLED)
UF Polymer Light Emitting Diodes (PLED)

Q7523 Encapsulated article
SA Microcapsule [shape & form]

Engineering
SEE Chemical engineering
SEE Civil engineering
SEE Electrical engineering
SEE Mechanical engineering
SEE Nuclear engineering

Q7534 Explosives
SA Propellents

Q7545 Fancy goods
UF Jewellery
UF Ornaments

Q7556 Fasteners

Q7567 Filters

Q7578 Fishing

Q7589 Food

Q7590 NT Food additive
SA Cooking utensils

Q7603 Friction materials

Q7614 NT Brakes
Q7625 NT Clutches

Q7636 Fuels

UF Fuel additives
SA Propellents

Q7647 Functional fluids

UF Hydraulic fluids
SA Fuels
SA Lubricants

Q7658 Glazing

"Polymer used in or with glass or as a substitute for glass in windows, windscreens etc"

UF Skylights
UF Windows
UF Windshields
UF Windscreens
SA Window frames

Q7669 Heat and temperature applications

UF Heat generating materials
SA Heat exchange devices
SA Solar heat collectors
SA Thermal insulation

Q7670 Hinges

Q7681 Household use

Q7692 NT Cabinets and housings
UF Radio cabinets
UF Telephone housings
UF TV cabinets
Q7705 NT Cooking utensils
UF Mixing bowls
UF Pan scrubbers
Q7716 NT Furniture
Q7727 NT Refrigerator use
Q7738 NT Tableware
UF Crockery
UF Cutlery
Q7749 NT Household use, other
SA Brushes
SA Carpets
SA Sanitary ware
SA Upholstery

Q7750 Immobilised enzymes
UF Immobilized enzymes
SA Microbiology

Q7761 Inflatable structures
SA Tyres

Ink
SEE Pigment/colo(u)rant system (04)
SEE Printing inks
SEE Writing inks

Insulation
SEE Acoustic insulation
SEE Electrical insulation
SEE Thermal insulation

Q7772 Ion exchange resins

Q7783 Labels

Q7794 Laboratory use
Q7807 NT Chromatography
SA Measuring and testing equipment

Q7818 Laminates
"Where surface(s) is specified see interface terms"
Q7829 NT Decorative laminates
SA Barrier layers
SA Coatings
SA Linings
SA Tie layers

Q9416 Leather treatment (96)
"Polymer use in the treatment of natural leather"
SA Coatings
SA Surfactant
SA Synthetic leather
SA Leather interface [universal terms]

Q7830 Linings
"Where surface(s) is specified see interface terms"
SA Barrier layers
SA Coatings
SA Laminates
SA Tie layers

Q7841 Lubricants
SA Functional fluids
SA Viscosity modifiers

Q7852 Mariculture
UF Fish farming
SA Fishing

Q7863 Masking compositions
UF Masking tape
SA Resists

Q7874 Measuring and testing equipment

Q7885 Mechanical engineering
Q7896 NT Bearing surfaces
UF Gears
Q7909 NT Belts
UF Conveyor belts
Q7910 NT Engines
UF Engine components
UF Internal combustion engines
UF Jet engines
SA Transport
Q7921 NT Mechanical tools
Q7932 NT Moulds
SA Shell mouldings
Q7943 NT Shell mouldings
UF Core binding
Q7954 NT Shock absorber
Q7965 NT Valves
UF Diaphragms
Q7976 NT Mechanical engineering, other
SA Friction materials
SA Rollers
SA Seals

Q7987 Medical use
UF Surgical use
Q9427 NT Birth control devices (96)
Q7998 NT Diagnosis
UF Pathology
Q8004 NT Diapers
UF Tampons
Q8015 NT Medical dressings
"Including casts, splints"
UF Bandages
Q8026 NT Medical equipment
UF Catheters
UF Syringes
Q8037 NT Medicines
UF Pharmaceuticals
Q8048 NT Prostheses
SA Lenses
Q8059 NT Medical use, other
SA Dental use
SA Disinfectant
SA Veterinary use

Q8060 Membrane
- UF Dialysis membrane
- UF Reverse osmosis membrane
- UF Ultrafilter
- UF Ultrafiltration membrane

Q8071 Metallurgy

Q8082 Microbiology
- UF Culturing bacteria
- UF Genetic engineering
- SA Immobilised enzymes

Q9438 Military use (96)
"Used for defensive military applications, including camouflage"
- SA Armaments

Q8093 Mining
- Q8106 NT Drilling fluid
  - UF Drilling mud
- Q8117 NT Well cementing
  - UF Permeability reducers
  - UF Well plugging
- Q8128 NT Well stimulation
  - UF Displacement techniques
  - UF Well flooding
- Q8139 NT Mining, other
  - SA Belts

Q8140 Musical instruments

Q8151 Nautical
- SA Fishing
- SA Water transport

Q8162 Nuclear engineering

Q8173 Office use
- Q8184 NT Drawing office material
  - UF Tracing paper
- Q9449 NT Office automation equipment (96)
  "Includes computers, keyboards etc."
  - UF OA Equipment
- Q8195 NT Pressure sensitive recording materials
  - Q8208 NT Carbon paper
  - Q8219 NT Carbonless paper
  - Q8220 NT Typewriter ribbon
- Q8231 NT Writing devices
  - SA Writing inks
- Q8242 NT Writing inks
- Q8253 NT Office use, other

Q8264 Optical use

Q8275 NT Implosion guards
Q8286 NT Lenses
Q8297 NT Contact lenses
Q8300 NT Spectacle lenses
Q8311 NT Lighting and fittings
Q8322 NT Liquid crystal devices
Q8333 NT Mirrors
Q8344 NT Optical fibres and cables systems
Q9450 NT Optical filters (96)
Q8355 NT Optical use, other
SA Recording media

Q8366 Packaging

Q8377 NT Cling film
Q8388 NT Closures
UF Tear strips
Q8399 NT Containers
Q8402 NT Aerosol containers
SA Aerosol compositions
Q8413 NT Bags
UF Sacks
Q8424 NT Blister packs
Q8435 NT Bottles
UF Squeeze bottles
Q8446 NT Boxes
Q8457 NT Cans
Q8468 NT Cartons
Q8479 NT Crates
Q8480 NT Tanks
Q8491 NT Tubs
Q8504 NT Cushion packaging
UF Bubble mat
Q8515 NT Pallets
Q8526 NT Sachets
Q8537 NT Shrink packages
Q8548 NT Strapping
Q8559 NT Stretch film
Q8560 NT Wrapping film
Q8571 NT Packaging, other
SA Labels
SA Laminates

Q8582 Paper

"Polymer used in"

Q8593 Pesticide

UF Insecticide

Q8606 Photography
Q8617 NT Electrophotography
Q8628 NT Photoconductors
Q8639 NT Toners
Q8640 NT Holography
Q8651 NT Photographic equipment
Q8662 NT Photographic substrate
UF Subbed film
Q8673 NT Radiation sensitive photographic polymers
"Use Radiation universal terms as applicable"
Q8684 NT Resists
SA Radiation sensitive/reactive [properties]
Q8695 NT Thermography
Q8708 NT Photography, other
SA Binders

Q9483 Pigment/colo(u)rant system (04)
"Polymer used in/as pigment/colo(u)rant system with use unspecified. Excluding inks, paints"

Q8719 Pipework
Q8720 NT Plumbing
UF Pipe fittings
Q8731 NT Pipes
UF Fluid conduction
UF Hosepipes

Q8742 Plating bath additives

Q8753 Pollution control

Q8764 Polyelectrolytes
UF Flocculants
SA Detergents

Q8775 Printing
Q8786 NT Ink jet printing
Q8797 NT Printing inks
Q8800 NT Printing plates
UF Stencils
Q9494 NT Substrate (04)
UF Receiving Layer
Q8811 NT Thermal head printing
Q8822 NT Transfer sheets and films
Q8833 NT Printing, other
SA Pressure sensitive recording materials
SA Rollers
SA Thermography

Q8844 Propellents
"Not used for aerosol propellents"
SA Aerosol compositions
SA Fuels

Q9405 Radomes (96)

Q8855 Recording media

"Including allied components e.g. cassette cases"

Q8866 NT Gramophone records
Q8877 NT Magnetic recording media
UF Magneto-optical recording media
Q8888 NT Magnetic recording discs
UF Floppy discs
Q8899 NT Magnetic recording tapes
Q8902 NT Audio tapes
Q8913 NT Video tapes
Q8924 NT Optical recording media
UF Optical storage
UF Optical retrieval
Q8935 NT Optical discs
UF CDR
UF CDRW
UF DVD
Q8946 NT Compact discs
Q8957 NT Video discs
SA Photography
SA Printing

Q9507 Release Sheets (04)

SA Release Coatings

Q8968 Renewable energy devices

Q8979 NT Solar heat collectors
UF Solar panels
SA Electro-optical use

Q8980 Rockets

SA Armaments
SA Space vehicles

Q8991 Rollers

Q9007 Sealants

UF Caulking compositions
UF Sealing compositions

Q9018 Seals

UF Gaskets
UF Washers
SA Closures

Q9029 Security use

Q9030 Self-testing use

UF Self-monitoring use
UF Tamper evident use

Q9041 Spectacle frames

SA Spectacle lenses

Q9052 Sports
Q9063 NT Balls
Q9461 NT Golf (96)
Q9074 NT Racquets
UF Golf clubs
UF Bats
Q9085 NT Skiing
Q9096 NT Sports areas
Q9109 NT Sports, other
SA Fishing
SA Toys

Q9110 Surfactant
SA Detergents

Q9121 Synthetic leather

Tape
SEE Adhesive tape
SEE Magnetic recording tapes
SEE Masking compositions
SEE Typewriter ribbon

Q9132 Textiles
SA Carpets
SA Clothing

Q9143 Thermal insulation
UF Lagging

Q9154 Tie layers
"Where surface(s) is specified see interface terms"
SA Barrier layers
SA Coatings
SA Laminates
SA Linings

Q9165 Toilet requisites
Q9176 NT Toilet requisites for skin
UF Cosmetics
Q9187 NT Toilet requisites for hair
UF Hair shampoo
UF Wigs
Q9198 NT Dental toilet requisites
UF Toothpaste

Q9201 Toys

Q9212 Transport
Q9223 NT Aircraft
Q9234 NT Ground vehicles
UF Cars
Q9245 NT Space vehicles
SA Rockets

Q9256 NT Tyres
UF Inner tubes
Q9267 NT Bonding aid for tyre reinforcement
Q9278 NT Retreaded tyres
Q9289 NT Vehicle parts
UF Bumpers
UF Wiper blades
Q9290 NT Water transport
SA Nautical
Q9303 NT Transport, other
SA Carpets
SA Glazing
SA Upholstery

Q9314 Travel goods
UF Handbags
UF Luggage
UF Trunks
UF Wallets

Q9325 Upholstery

Q9336 Veterinary use

Q9347 Viscosity modifiers

Q9358 Window frames

Q9369 Polymer use, other

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For more information, visit
clarivate.com

North America
Philadelphia: +1 800 336 4474
+1 215 386 0100

Latin America
Brazil: +55 11 8370 9845
Other countries: +1 215 823 5674

Europe, Middle East and Africa
London: +44 20 7433 4000

Asia Pacific
Singapore: +65 6775 5088
Tokyo: +81 3 5218 6500

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