

DESCRIPTION

Celebrating its 50th anniversary in 2013, *Derwent World Patents Index*® (*DWPI*SM), produced by Clarivate Analytics, provides access to information from more than 52.5 million patent documents, giving details of over 24 million inventions. Each update adds an average of 46,000 documents from 48 patent-issuing authorities and 2 journal sources are added to *DWPI*.

Whether you are interested in patents for their technical content, for business planning and development, or for protecting the innovations within your own organization, *DWPI*'s reliable and enhanced patent data contains many key features that distinguish it as the most trusted source of patent research information available and gives you the most complete picture possible.

The *DWPI*SM documents go through an extensive editorial process. Raw data is reviewed and corrected for mistakes and missing information. Each document describes a single "patent family" containing data from the first publication of an invention, known as the "basic patent", as well as any further published patents relating to that invention, known as "equivalents". Written in English and with extensive Asia-Pacific coverage, the documents contain information that represents the entire patent family along with the original data for each family member:

- Patent family, or invention level, data: Derwent enhanced titles and abstracts, proprietary Derwent Classes and Derwent Manual Codes, subject indexing and in-depth chemical and polymer indexing, electrical and engineering drawings dating back to 1988, and chemical structure drawings dating back to 1992. Bibliographic information including patent assignees, inventors, classification codes and priority application numbers from the individual patents, which is collated and de-duplicated.
- Original publication, or as-published, data: full author name and address, document title, abstract, claims, patent classification codes, filing details, and legal representative. The amount of original publication data present in each record varies by publishing authority, patent kind, and time, as indicated in the Sources section.

Starting in 1999, additional abstracts and indexing features are provided. The alerting abstract (formerly "basic abstract") is organized into paragraphs with informative, searchable paragraph headings. The alerting abstract also contains a Novelty paragraph describing the non-obvious improvements over previous technology. A Technology Focus section contains separate paragraphs providing different technological viewpoints of the invention. The Extension Abstract and Documentation provide detailed summaries that bridge the gap between the concise abstract summary and the full text patent document.

Also see the ProSheets for *Derwent Chemistry Resource (DCR)*, which provides chemical searching with a link back to the *DWPI* records that include the chemical; and *Patents Citation Index (PCI)*, which details examiner and author citations for patents from 25 patent-issuing authorities.

Subject Coverage

DWPI covers:

- Pharmaceutical patents from 1963
- Agricultural patents from 1965
- Polymer and plastics patents from 1966
- Chemical patents from 1970
- All patentable technologies from 1974

Sources

Comprehensive details of the 48 patent-issuing authorities and 2 journal sources used to create *Derwent World Patents Index*® can be downloaded for free at <http://ip-science.thomsonreuters.com/support/patents/coverage/>.

Date Coverage

1963 - present

Update Frequency

82 updates/year

Geographic Coverage

International

Document Types

Patents

Publisher

Derwent World Patents Index is provided by Clarivate Analytics. Questions concerning file content should be directed to Customer Care at: <http://clarivate.com/about-us/contact-us/>.

DTI, TI

Preparation of 8,9-dihydro-7H-1,3a,9-triazacyclopenta(a)naphthalen-6-ones useful as intermediates for medicaments, involves dehydrogenating 5,7,8,9-tetrahydrotriazacyclopenta(a)naphthalen-6-ones using N-bromosuccinimide 200473 (First update). 200737 (Last update). Drawing available.

Patent

Family (12 members)

Bibliographic information | [Claims](#)

[Abstract \(enhanced\)](#) [Translate](#)

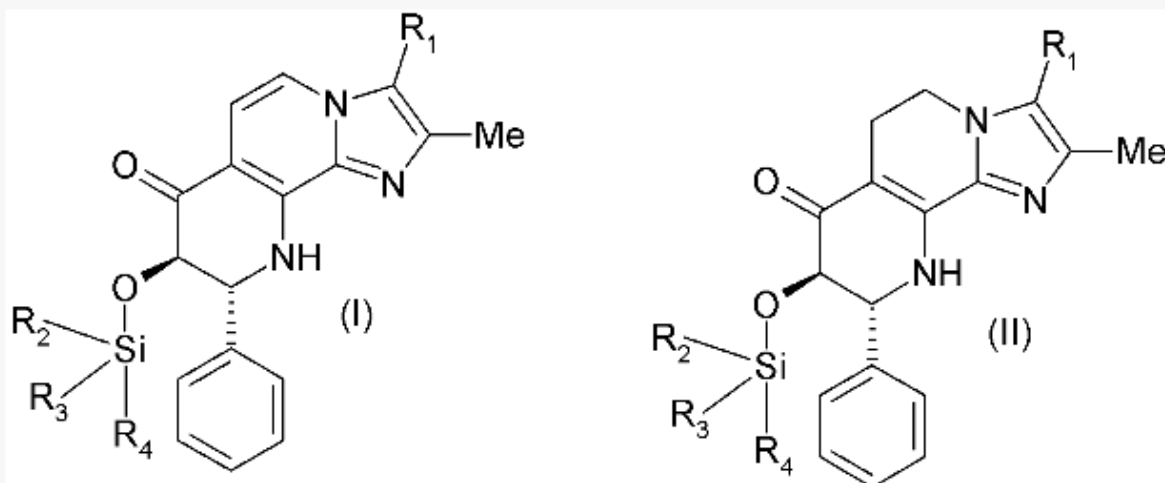
Alerting

Novelty

Preparation of 8,9-dihydro-7H-1,3a,9-triazacyclopenta(a)naphthalen-6-ones (I) or their salts involves dehydrogenation (i.e. oxidation) of 5,7,8,9-tetrahydro-4H-1,3a,9-triazacyclopenta(a)naphthalen-6-ones (II) using N-bromosuccinimide (NBS).

Description

Preparation of 8,9-dihydro-7H-1,3a,9-triazacyclopenta(a)naphthalen-6-ones of formula (I) or their salts involves dehydrogenation (i.e. oxidation) of 5,7,8,9-tetrahydro-4H-1,3a,9-triazacyclopenta(a)naphthalen-6-ones of formula (II) using N-bromosuccinimide (NBS).



R ₁	H, methyl or hydroxymethyl; and
R ₂ - R ₄	1-7C alkyl.

Use

(I) are useful as intermediates for medicaments for treating gastric and intestinal disorders.

Advantage

The process may be used on industrial scale.

¹ Some images in the abstract have been removed to shorten the display length.
Page 2

TF, AB, TX	Technology focus
	<p>ORGANIC CHEMISTRY</p> <p>Preferred Method: The amount of NBS used is 1 equivalent calculated on the basis of the amount of (II) used. The reaction is carried out in an inert organic solvent at -70 to 50 (preferably 0 - 30)°C. Subsequent to the reaction with NBS, an organic base (preferably an organic amine, especially triethylamine) is used for the removal of hydrogen bromide.</p>
EAB, AB, TX	Extension
	<p>Specific compounds-SPECIFIC COMPOUNDS</p> <p>The preparation of 1 compound (I) is specifically claimed, i.e. 7-(tert-butyldimethylsilyloxy)-2,3-dimethyl-8-phenyl-8,9-dihydro-7H-1,3a,9-triazacyclopenta(a)naphthalen-6-one (Ia).</p>
2, 3	<p><input type="checkbox"/> Indexing (details) <input type="checkbox"/> Cite</p>
PA, CO	Assignee ALTANA PHARMA AG
INV, AU	Inventor ALSTERS, P L Mink, D Paulus, L A
PBC, PN, PD	Publication number WO 2004087718 A1 (14 October 2004)
APC, APN, APD	Application number WO 2004EP50414 A (01 April 2004)
PPC, PRN, PRD	Priority number EP 20037663 A (03 April 2003)
CPC ⁴	CPC classification C07D 471/14 (main); C07F 7/1892 More details ▼
IPC ⁴	IPC classification Version 8: A61K 31/4745 (main); C07F 7/18 (main); C07D; C07D 471/00; C07D 471/14; C07F; C07F 7/00; C07F 7/18 Version 1-7: C07F 7/18 (main); C07D 471/14 More details ▼
ECLA	ECLA classification C07D 471/14; C07F 7/18 C9G
USCL	US classification 546/82 (main)
JPC	JP classification FI-term C07F 7/18 T More details ▼
JPF ⁴	JP classification F-term 4H049; 4H049/VN01; 4H049/VP01; 4H049/VQ60; 4H049/VR23; 4H049/VR41; 4H049/VS60; 4H049/VU06; 4H049/VV01; 4H049/VV13; 4H049/VW02
M2D	Chemical fragment codes M2 01: M905 M904 B614 B711 B720 B743 B831 D013 D014 E260 G010 G100 J5 J521 M1 M113 M210 M211 M214 M233 M240 M250 M282 M283 M320 M411 M511 M520 M531 M540 M720 N223 N224 N312 N411 N511 N512 N513 RAFR4Z-H-K-P 975061-H-K-P 56288 02: M905 M904 B614 B711 B720 B743 B831 D012 D013 D014 E260 G010 G100 H401 H481 J5 J521 M1 M113 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M231 M232 M233 M240 M250 M281 M282 M283 M311 M320 M321 M342 M373 M391 M411 M511 M520 M531 M540 M630 M640 M650 M720 N223 N224 N312 N411 N511 N512 N513 014237801-K-P 56288
KWD	Keyword concept 1 0: 975061-H-CL-PRD 1: 0142-37801-CL-PRD
DC	Derwent chemical class B02: Fused ring heterocyclics
MCD	CPI manual code B05-B01B

² Clicking on hyperlinked publication and application numbers automatically search the numbers in all patent databases.

³ The Indexing section includes the Derwent basic patent and application numbers. Patent family details are displayed on the Family tab.

⁴ Clicking on "More details" for CPC, IPC and Japanese FI Terms displays the attribute values assigned to each code; the attribute values are not indexed for searching.

LA	Publication language	English; Norwegian; Portuguese; Spanish; Korean; Chinese; Japanese
LRP, LRL	Legal representative	RUPP, Herbert (Agent) Altana Pharma AG, Byk-Gulden-Str. 2, 78467 Konstanz, DE, DE
DS	Designated states	National: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW Regional: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
--	Number of designated states	107
NR, NCP, NOC	Document features	7 literature citations (examiner); 2 cited patents (examiner) 1 claims
DW	Update code	DWPI: First updated in 200473; Last updated in 200737 PCI: First updated in 200509; Last updated in 200613 (2004748020)
--	Source attribution	Derwent World Patents Index, © Publisher specific
AN	Accession number	2004748020
--	Document URL	http://search.proquest.com/professional/docview/954257584?accountid=137296
FAV, UD	First available	2012-03-29
	Copyright	© 2014 Thomson Reuters. All rights reserved.
PUB	Database	Derwent World Patents Index® (1963 - current)

Patent

Family (12 members)

Bibliographic information | Claims

CLM, TX, FT

1. 1. Process for the production of compounds of formula 1, [CF C00004] in which
R1 is hydrogen, methyl or hydroxymethyl,
R2 is 1-7C-alkyl,
R3 is 1-7C-alkyl and
R4 is 1-7C-alkyl,
and their salts,
which comprises dehydrogenating (oxidizing) compounds of formula 2, [CF C00005] in which R1, R2, R3 and R4 have the meanings given above, by using NBS (N-bromosuccinimide).

Patent	Family (12 members)
Family members (12)	

NPF, NCN **Patent family** (Number of patents: 12; Number of countries: 107)

Publication number	Kind	Publication date	Application number	Kind	Application date	Update code	Type
WO 2004087718	A1	20041014	WO 2004EP50414	A	20040401	200473	B
AU 2004226178	A1	20041014	AU 2004226178	A	20040401	200638	E
NO 200504977	A	20051026	NO 20054977	A	20051026	200609	E
MX 2005010311	A1	20051201	MX 200510311	A	20050926	200629	E
KR 2005119145	A	20051220	KR 2005718058	A	20050926	200652	E
EP 1613637	A1	20060111	EP 2004725052	A	20040401	200604	E
BR 200408771	A	20060328	BR 20048771	A	20040401	200624	E
CN 1764665	A	20060426	CN 200480008177	A	20040401	200654	E
US 20060194972	A1	20060831	US 2005550691	A	20050926	200657	E
JP 2006522068	W	20060928	JP 2006505508	A	20040401	200667	E
ZA 200506904	A	20070131	ZA 20056904	A	20050829	200715	E
IN 2005MU01206	P3	20070420	IN 2005MN1206	A	20051027	200737	E

PPC, PRN, PRD

Priority applications: EP 20037663 A (03 April 2003)

EP 1613637 A1

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Original publication data

Original title	PROCESS FOR THE PRODUCTION OF IMIDAZOPYRIDIN-8-ONES VERFAHREN ZUR HERSTELLUNG VON IMIDAZOPYRIDIN-8-ONEN , PROCEDE DE PREPARATION DE IMADAZOPYRIDIN-8-ONES
Assignee	ALTANA Pharma AG (BYKG) Byk-Gulden-Strasse 2, 78467 Konstanz, DE, 78467 Konstanz, DE
Inventor	ALSTERS PAULUS LAMBERTUS Oranjeplein 273, NL-6224 KZ Maastricht, NL, NL-6224 KZ Maastricht, NL MINK DANIEL Heckenweg 5, B-4700 Eupen, BE, B-4700 Eupen, BE
Legal representative	Wolf, Ulrich ALTANA Pharma AG, Byk-Gulden-Strasse 2, 78467 Konstanz, DE, 78467 Konstanz, DE
Publication number	EP 1613637 A1 (11 January 2006, Update 200604)
Application number	EP 2004725052 A (01 April 2004)
Priority number	EP 20037663 A (03 April 2003)
Related publication	Based on OPI patent: WO 2004087718 A
Related application	PCT: WO 2004EP50414 A (01 April 2004)
IPC classification	Version 8: C07D 471/14 ; C07F 7/18 Version 1-7: C07F 7/18 (main); C07D 471/14 More details ▼
ECLA classification	C07D 471/14 ; C07F 7/18 C9G
Language	English
Designated states	Regional: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

⁵ The complete set of Derwent patent family members are displayed in a table. To view the bibliographic details of a member, click on the patent number.

Original abstract (summary):

English:

The invention relates to a process for the production of 7-(trialkyl-silanyloxy)- 2,3-dimethyl-8-phenyl-8,9-dihydro-7H-1,3a,9-triazacyclopenta[a]naphthalen-6-one and related compounds by using NBS as oxidizing agent.

[Go back to table](#) [◀ Previous](#) Patent member 6 of 12 [Next ▶](#)

SEARCH FIELDS – PATENT BIBLIOGRAPHIC INFORMATION

Field Name	Field Code	Search examples ⁶	Description and Notes
Accession number	AN	an(2004748020)	A unique document identification number assigned by the information provider.
Any number, in many formats	PNUM	pnum(EP 7663) pnum(7663) pnum(KR2005119145A) pnum(KR2005119145) pnum(2005119145)	Publication, application, priority application, related application, and related publication number. Includes various forms of the number.
Application country ⁷	APC	apc(ep)	Application, priority application, and related application country.
Application date ⁷	APD	apd(20051026)	Basic and equivalent application date.
Application dates – all ⁷	APDA	apda(20040401)	Application, priority, and related application dates.
Application number ⁷	APN	apn(WO 2004EP50414)	Basic and equivalent application number.
Application numbers – all ⁷	APNA	apna(MX 200510311)	Application, priority application, and related application numbers.
Author ⁸	AU	au(Mink)	Author names in patent databases are inventors but can be searched using the AU field code.
Classification – CPC ⁹	CPC	cpc(C07D 471/14) cpc(C07D 471) cpc(C07D) cpc(C07) cpc(C)	The Cooperative Patent Classification (CPC) is available for searching from March 2013 forward.
Classification – ECLA	ECLA	ecla(C07F 7/18 C9G) ecla(C07F 7) ecla(C07F) ecla(C07) ecla(C)	European Class codes.
Classification – IPC ¹⁰	IPC	ipc(A61K 31/4745) ipc(A61K 31) ipc(A61K) ipc(A61) ipc(A)	International Patent Class codes. IPC Version 7 and earlier is used prior to 2006. The IPC Version 8 is used from 2006 forward.

⁶ Most, but not all, of the search examples are from the sample record.

⁷ Non-priority application data is included from DWPI Update 198409.

⁸ Present from 1978 forward. Last name of author limited to 10 characters prior to DWPI Update 199216.

⁹ The Cooperative Patent Classification (CPC) was introduced in January 2013. It is structurally similar to the International Patent Classification (IPC), so CPC classes are searched the same way using the CPC field code. CPC attributes are the same as the IPC attributes with the exception of the Value attribute (I - Inventive, A - Additional).

¹⁰ IPC Version 7 and earlier is used from 1970 through 2005. IPC Version 8 is used from 2006 forward. With the introduction of the Reformed International Patent Classification (IPCR/8) on January 1, 2006, the format of the IPC group increased in length from 3 to 4 digits. For comprehensive retrieval, both forms of the classification codes should be searched. Some records may contain IPCR/8 codes as well as earlier versions of IPC codes, indicating that an older patent has been reclassified. Each IPCR/8 classification code is also assigned a series of attributes. These include classification level (A - Advanced, C - Core, S - Subclass), value (I - Inventive, N - Non-inventive), position (F - First, L - Later), status (B - Basic, R - Reclassified, V - Various, D - Deleted), version date, action date, source (H - Human, M - Machine, G - Generated), and assigning office.

Field Name	Field Code	Search examples ⁶	Description and Notes
Classification – JP FI-Terms	JPC	JPC(C07F 7/18) JPC(C07F 7) JPC(C07F)	Japanese national Class codes. FI Terms are based on IPC Version 4.
Classification – JP F-Terms	JPF	JPF(4H049/VN01) JPF(4H049)	Japanese national Class codes.
Classification – US	USCL	uscl(546/82) uscl(546)	United States national Class codes.
Company information	CO	co(ALTANA PHARMA)	DWPI standardized and as-published patent assignee.
Derwent Class	DC	dc(B02)	
Derwent Week	DW	dw(200473) dw(200715)	The Derwent week in which a publication was added to the DWPI database.
Designated states	DS	ds(FR)	National (WIPO/PCT) and Regional (EPO).
Document type	DTYPE	dtype(patent)	The only document type in DWPI is “patent”.
First available	FAV	fav(2012-03-29)	The first time a document was loaded in a database (DWPI). It does not change however many times the record is subsequently reloaded.
From database ¹¹	FDB	NBS and (gastric or intestinal) and fdb(1008360)	Useful in multi-database searches to isolate records from a specific database. FDB cannot be used in a single database search.
Image present	IMGANY	hydrogen bromide and imgany(yes)	Add: AND IMGANY(YES) to a query to limit your search to documents with an image.
Inventor	INV	inv.exact(“Mink, D”)	May also search inventor names using the AU field code.
Inventor country	ICO	ico(nl)	
Language ¹²	LA	la(Korean)	The language in which the document was originally published.
Legal representative	LRP	lrp(NATH & ASSOCIATES)	The legal representative, attorney, agent, or firm who represents the patent assignee.
Legal representative location	LRL	lr(Alexandria, VA)	The mailing address if available.
Number of cited literature references ¹³	NR	nr(>5) nr(7)	The number non-patent literature references. NR is a numeric field.
Number of cited patents ¹³	NCP	ncp(2) ncp(2 or 3 or 4)	NCP is a non-numeric field; using symbols such as “greater than” (>), “less than” (<) is not possible.
Number of citing patents ¹³	NCBP	ncbp(15)	NCBP is a non-numeric field; using symbols such as “greater than” (>), “less than” (<) is not possible.
Number of countries	NCN	ncn(107) ncn(>=1)	NCN is a numeric field; using “greater than” (>) and “less than” (<) symbols, for example, is possible.
Number of patents in family	NPF	npf(12) npf(>1)	NPF is a numeric field; using “greater than” (>) and “less than” (<) symbols, for example, is possible.
Patent assignee	PA	pa(ALTANA PHARMA)	
Patent assignee country	ACO	aco(DE)	The mailing address country for the patent assignee consisting of the ISO-standard 2-letter country code.
Patent publication country	PBC	pbc(us)	Searches the 2-letter ISO standard country code for the basic, equivalent and related publication country.
Patent publication country and kind code	KC	kc(wo a1) kc(us)	The kind code indicates the publication level of a patent document. KC searches basic and equivalent publication country and kind, or the country only.

¹¹ FDB searches the database ID. Click the “Help” hyperlink then click “Search syntax and field codes”, and then click “FDB command” for a list of database names and codes that can be searched with FDB. FDB cannot be searched on its own; specify at least one search term then AND it with FDB.

¹² Prior to DWPI Update 199216, language was coded only for EP and WO patents. Language may not be present if the language of the document is the primary language of the patent country

¹³ Search Patent Citations Index for citation content. Only the citation counts are available in *DWPI*SM.

Field Name	Field Code	Search examples ⁶	Description and Notes
Patent publication country and kind code – all	KCA	kca(US a1) kca(WO A) kca(WO)	The kind code indicates the publication level of a patent document. KCA searches the basic, equivalent and related publication country with kind code, or the country only.
Patent publication date ¹⁴	PD	pd(20041014) pd(200410) pd(2004)	Basic publication date
Patent publication dates – all ¹⁴	PDA	pda(20070420) pda(200704) pda(2007)	Basic, equivalent and related publication dates.
Patent publication number	PN	pn(WO 2004087718A1) pn(WO 2004087718) pn(WO2004087718) pn(CN 1764665)	Basic and equivalent publication numbers.
Patent publication numbers – all	PNA	pna(US 20060194972) pna(WO 2004087718)	Basic, equivalent and related publication numbers.
Priority application country	PPC	ppc(EP)	The 2-letter ISO-standard country code associated with the priority application number.
Priority application date	PRD	prd(20030403) prd(200304) prd(2003)	The 8-digit date assigned to a priority application number.
Priority application number	PRN	prn(EP20037663) prn(EP 20037663A)	The priority application number is the number assigned to the original or first application. Also searchable with APNA.
Publication title	PUB	pub(Derwent World Patents Index)	In a patent database, the publication title is generally the database name.
Publication type	PT	pt("Government & Official Publications")	The only publication type in Derwent World Patents Index is "Government & Official Publications".
Related publication and application type	DT	dt(based on OPI patent) dt(PCT)	The type of related publication and application, such as PCT, Continuation in part, etc.
Updates	UD	ud(2012-03-29)	The date(s) the record was loaded as a result of an update provided by the supplier.

SEARCH FIELDS – PATENT TEXT

Field Name	Field Code	Search examples ⁶	Description and Notes
Abstract ^{15,16}	AB	ab(*dimethyl)	Derwent Alerting, Documentation, Extended and original abstracts
Abstract - Alerting ^{15,16}	AAB	aab(*dihydro)	Present in chemical patents (Chemical Patent Index, or CPI) from 1963 forward, in all areas 1970 forward.
Abstract – Documentation ^{13, 15}	DAB	dab(CHLORO* PRE PHENYL)	Contains more detail and depth than the alerting abstract for chemical patent (CPI) documents.
Abstract – Extended ^{15,17}	EAB	eab(suspension AND triazacyclopenta)	Additional information for chemical patent (CPI) documents.
Abstract – Novelty ^{15,17}	NV	nv(bromosuccinimide OR NBS)	Also included in the Alerting abstract search, AAB.
Abstract of original patent ^{15,17}	PAB	pab(NBS)	
Abstract present ¹⁶	ABAN Y	hydrogen bromide AND abany(yes)	Add: <i>AND ABANY(YES)</i> to a query to limit retrieval to records with abstracts. About 88% of records have Alerting abstracts.

¹⁴ Patent dates may be missing for some records prior to 1974.

¹⁵ Use adjacency and/or Boolean operators to narrow search results. Right and left truncation is available.

¹⁶ Some pre-1970 patent records with DWPI Accession number ending in Z do not have abstracts. Also, abstracts may not be present for Japan or "minor" countries.

¹⁷ Available from DWPI Update 199908 forward.

Abstract - Technology Focus ^{15,17}	TF	tf(triethylamine AND "hydrogen bromide")	Information based on the particular type of technology disclosed in the patent.
All fields + text ¹⁵		Dehydrogenat* Gastric N/3 disorder	Using no field code searches all fields
Claims ^{3,15}	CLM	clm(Dehydrogenate*)	Claims are the legal text describing the patent.
Derwent enhanced title ¹⁵	DTI	dti(bromo*)	Titles that are more informative than the original title on the specification.
Document text ¹⁵	TX	tx(hydrogen bromide) tx(*dimethyl)	Includes Derwent title and abstract, original title and abstracts, and claims. Also searchable as FT.
Patent title ¹⁵	TI	ti(IMIDAZOPYRIDIN*) ti(*hydrogenat*)	TI searches both the Derwent and original patent titles

SEARCH FIELDS – CHEMICAL INDEXING

Field Name	Field Code	Search examples ⁶	Description and Notes
Chemical fragment code – M0	M0D	m0d(D601)	Includes code and Markush number.
Chemical fragment code – M1	M1D	m1d(N105) m1d(R01863) m1d(107779)	Includes code and specific compound, DCR, Markush, and ring index numbers.
Chemical fragment code – M2	M2D	m2d(N224) m2d(RAFR4Z) m2d(975061) m2d(014237801) m2d(56288)	Includes code and specific compound, DCR, Markush, and ring index numbers.
Chemical fragment code – M3	M3D	m3D(G015) m3D(R00299) m3D(10685) m3D(9950J1101) m3D(01526)	Includes code and specific compound, DCR, Markush, and ring index numbers.
Chemical fragment code – M4	M4D	m4D(D000) m4D(102219601) m4D(07559) m4D(RA5F52) m4D(461774)	Includes code and specific compound, DCR, Markush, and ring index numbers.
Chemical fragment code – M5	M5D	m5D(M430) m5D(R00148) m5D(8349) m5D(030448201)	Includes code and specific compound, DCR, Markush, and ring index numbers.
Chemical fragment code – M6	M6D	m6D(R531) m6D(RAHTJ1) m6D(1074267) m6D(894408501) m6D(05105)	Includes code and specific compound, DCR, Markush, and ring index numbers.
DCR number	DCR	dcr(975061)	Derwent Chemistry Resource number
Derwent registry number	DR	dr(0649)	Included from DWPI Update 198127 forward
Keyword indexing	KWD	kwd(975061) kwd(0142-37801)	Includes Markush and DCR numbers.
Manual code	MCD	mcd(B05-B01B)	
Markush number	CNMK	cnmk(0142-37801)	Also known as Generic compound number
Plasdoc code	KS	ks(0037) ks(0211)	Polymer key serial (Plasdoc) codes.
Polymer fragment code	PF	pf(034) pf(04B) pf(27A)	The trailing dashes (-) and ampersands (&) have been replaced with the letters "B" and "A".

Field Name	Field Code	Search examples ⁶	Description and Notes
Polymer indexing ¹⁸	DPI	dpi(P0000) dpi(ND01) dpi(R03233)	Includes polymer code, specific compound number, and DCR number.
Ring index number	RIN	rin(56288)	
Specific compound number	CNS	cns(RAFR4Z)	

SEARCH TOOLS

Field codes are used to search document fields, as shown in the sample document. Field codes may be used in searches entered on the **Basic Search**, **Advanced Search**, **Command Line** and **Look Up Patent** search pages. **Limit options**, **Look up lists**, **“Narrow results by” filters**, and **Look up patent** tools are also available for searching. Most data can be searched using more than one tool.

LIMIT OPTIONS

Limit options are quick and easy ways of searching certain common concepts. Check boxes are available on the Advanced Search page for **Abstract included** and **Images included**.

The Advanced search page also contains a short list of choices for **Patent publication country**, **Language** and dates. **Date limiters** are available for selecting single dates or date ranges for **publication date**, **priority date**, **application date**, and **update date**.

LOOK UP LISTS

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¹⁸ Polymer Indexing present from DWPI Update 199332 to replace Polymer Fragments Codes, and Plasdoc Key Serial Codes, discontinued from DPWI Update 199501.

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