

Subject Coverage	<ul style="list-style-type: none"> Analytical chemistry Applied chemistry Biochemistry 	<ul style="list-style-type: none"> Chemical engineering Macromolecular chemistry Organic chemistry
File Type	Bibliographic	
Features	<p>Thesaurus Classification Code (/CC), Company Name (/CO), Controlled Term (/CT), European Patent Classification (/EPC), F-Term (/FTERM), ICO (in-computer-only) Classification (/ICO), International Patent Classifications (/IPC), National Patent Classifications Current (/NCL), National Patent Classifications Issue (/INCL), and Role (/RL)</p> <p>Alerts (SDIs) Daily, weekly (default), biweekly</p> <p>CAS Registry Numbers® <input checked="" type="checkbox"/> Page Images <input checked="" type="checkbox"/> STN AnaVist <input checked="" type="checkbox"/></p> <p>Keep & Share <input checked="" type="checkbox"/> SLART <input checked="" type="checkbox"/> STN Easy <input checked="" type="checkbox"/></p> <p>Learning Database <input checked="" type="checkbox"/> Structures <input checked="" type="checkbox"/> STN Viewer <input checked="" type="checkbox"/></p>	
Record Content	<ul style="list-style-type: none"> Bibliographic information and available abstracts Cited references for journals, conference proceedings, and basic patents from the US, EPO, WIPO, and German patent offices added to CAS databases since 1997 Patent examiner citations from British and French patents (2003-present), Canadian patents (2005-present) as well as nearly 300,000 patent records from 1982-2008 Citing references Legal status information for U.S. patents since 1980 	
File Size	More than 34.5 million records (09/11)	
Coverage	1907-present plus more than 180,000 pre-1907 records	
Updates	<ul style="list-style-type: none"> Daily updates with bibliographic data (approx. 3000 new records) Weekly updates with indexing data (approx. 14,000 records) 	
Language	English	
Database Producer	<p>Chemical Abstracts Service 2540 Olentangy River Road P.O. Box 3012 Columbus, Ohio 43210-0012 USA Phone: 800-753-4227 (North America) Phone: 614-447-3700 (worldwide) Fax: 614-447-3751 E-mail: help@cas.org Copyright Holder</p>	

Sources	<p>Journals: Over 10,000 journals are monitored. All articles, including biographical items, book reviews, editorials, errata, letters to the editor, news announcements, product reviews, meeting abstracts, and miscellaneous items, from nearly 1500 key chemical journals covered since 1994. Bibliographic information and available abstracts for the articles from key journals are added within 1 week of journal receipt. New bibliographic records are added daily.</p> <ul style="list-style-type: none"> • Patents • Conference proceedings • Electronic-only journals • Books • Dissertations • Reviews • Technical disclosures • Web pre-prints • Meeting abstracts 		
User Aids	<ul style="list-style-type: none"> • Training materials are available on the CAS website at www.cas.org • STNGUIDE 	<ul style="list-style-type: none"> • Online Helps (HELP DIRECTORY lists all help messages available) 	
Clusters	<ul style="list-style-type: none"> • 2ANAVIST • AEROTECH • AGRICULTURE • ALLBIB • AUTHORS • BIOSCIENCE • CASLINK • CASRNS • CHEMENG • CHEMISTRY 	<ul style="list-style-type: none"> • CORPSOURCE • ENGINEERING • ENVIRONMENT • FOOD • FORMULATIONS • FUELS • GEOSCIENCE • GOVREGS • HEALTH • MATERIALS 	<ul style="list-style-type: none"> • MEDICINE • METALS • PATENTS • PETROLEUM • PHARMACOLOGY • PHYSICS • POLYMERS • SAFETY • TOXICOLOGY <p>STN Database Clusters information (PDF).</p>
Related Databases	<ul style="list-style-type: none"> • CA • LCA 		
Pricing	<p>See the STN Price List or enter HELP COST at an arrow prompt.</p>		

Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*). The minimum stem length for left truncation is three (3) characters.

General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from title (TI), supplementary term (ST), index term (IT), and abstract (AB) fields, as well as CAS Registry Numbers)	None (or /BI or /IA)	S 50-21-5 S TRANSGENIC COTTON S ?FLUOROCARBON? S (WATER(S)OIL)/BI	AB, IT, ST, TI
Abstract *	/AB	S (WATER(1W)OIL)/AB S LD50/AB S HIGH TEMP?/AB S (HIV(S)TREAT?)/AB	AB
Accession Number	/AN	S 1966:508061/AN	AN, DN
Author (inventor)	/AU	S LEHNINGER A?/AU S (DUCHEYNE P?(S)EDITOR#)/AU S ANON/AU	AU, IN
CA Section Cross Reference (number and title) (1,2)	/SX	S 1/SX S ANALYTICAL/SX S RADIATION CHEMISTRY/SX	CC
Classification Code (contains CA section-subsection number, if available, section title, and section group codes) (2,3)	/CC	S 1/CC S 80-6/CC S TOXICOLOGY/CC S RADIATION CHEMISTRY/CC S L1 AND BIO/CC	CC
Company Name (3)	/CO	E DOW CHEMICAL/CO	CO, CS, PA
Controlled Term (3,4)	/CT	S ANTITUMOR AGENTS/CT	CT, IT
Controlled Word (4)	/CW	S OPTIC?/CW	CT, IT
Corporate Source (organization name, patent assignee) (2)	/CS	S DOW/CS S DOW CHEM MIDLAND/CS S "DOW CORNING"?/CS	CS, PA
Country of Author	/CYA	S USA/CYA	CS, CYA, PA
Document Number	/DN	S 41:39650/DN	DN
Document Type (code and text)	/DT (or /TC)	S P/DT S PATENT/DT S REVIEW/DT S NEWS ANNOUNCEMENT/DT	DT
Entry Date (5)	/ED	S ED>20060211 S ED>FEB 11, 2006	ED
Field Availability	/FA	S L1 AND ABS/FA	Not displayed
File Segment	/FS	S BIO/FS AND L2 S L1 NOT NONINDEXED/FS S NOSECTION/FS	FS
Index Term * (6)	/IT	S 75-28-5(2W)CRACKING OF/IT	IT
International Standard (Document) Number (contains CODEN, ISBN, and ISSN) (7)	/ISN	S JOCRAM/ISN S 0021-9673/ISN	ISN, SO
Issue Number of Publication (5,8)	/IS	S 1-3/IS AND 32/VL	SO
Journal Title	/JT	S J CHROMATOGR/JT S COMPT REND?/JT S IP.COM JOURNAL/JT	JT, SO
Language (code and text) (9)	/LA	S L1 AND EN/LA S L1 AND ENGLISH/LA S L1 NOT DE/LA	LA

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Original Reference Number (10) Other Source (1) Publication Date (5)	/OREF /OS /PD	S 63:5967A/OREF S L1 AND MARPAT/OS S PD>20010400 S JUNE 1992-SEPT 1993/PD S 1947-1949/PY S ACADEMIC/PB S "S 0014-5793(96)01227-6"/PUI S 99685-96-8(L)SPN/RL S 99685-96-8/SPN S FULLERENES(L)SPN/RL S FULLERENES/SPN S INORG CHEM/SO S JOCRAM/SO S 0021-9673/SO S AM CERAM SOC/SO S 1992/SO S ACS ASAP/SO S IP COM JOURNAL/SO S LIVER METAB?/ST S LIVER/TI S SPIN SPIN/TI S (METABOLISME(S)VEGETAUX)/TI S "HTTP://WWW.BIOSCIENCE.ORG/ BIOSCIENCE/1996/V1/D/CHINTALL/ /HTMLS/324-339.HTM"/URL	OREF OS PI, SO PI, PY, SO PB PUI IT, RL SO ST TI SO, URL Not displayed Not displayed Not displayed Not displayed UPP DN SO
Source (contains publication title, date, publisher, conference title, meeting date, volume, issue, pagination, CODEN, ISBN, ISSN, URL, and access to prepublication articles in ACS journals) (7,11)	/SO		
Supplementary Term * (1) Title *	/ST /TI		
Uniform Resource Locator (1)	/URL		
Update Date (5)	/UP		
Update Date, Addition of Registered Substance (5)	/UPIT		
Update Date, CA Abstract Number and Indexing (5)	/UPI		
Update Date, Maximum (5)	/UPM		
Update Date, Patent Family (5)	/UPP		
Volume and Issue of CA	/VI		
Volume Number of Publication (5)	/VL		

- (1) Content of this field is available for records from 1967 to the present except for the PREP (Preparation) role that has been assigned back to 1907.
- (2) Search with implied (S) proximity is available in this field.
- (3) A thesaurus is available in this field.
- (4) Pre-1967 subject index headings are searchable in the /CT and /CW field only if they match the index headings in the CA Lexicon. Unmatched pre-1967 subject headings are searchable as single words in the /IT and /BI fields.
- (5) Numeric search field that may be searched with numeric operators or ranges.
- (6) Stopwords are not removed from this field.
- (7) ISBNs are included only for records added since December 17, 2001.
- (8) Content available only for records from 1963 to the present.
- (9) Language is available only for records from 1967 to the present and for some journals prior to 1967.
- (10) OREF contains the CA volume number and page location information for abstracts published 1907-1998.
- (11) Searching ACS ASAP/SO gives access to the ACS journal references prior to those articles being published in the printed ACS journals. Starting on July 29, 1998, the bibliographic data and the abstracts for ACS documents are added to CAplus records as soon as they become available on the ACS Publications web site (pubs.acs.org). Once the document receives the volume, issue, and pagination, the record is updated with this bibliographic information in the Source (SO) field and the ACS ASAP notation is removed.

Patent Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Country Number Count (1)	/CYC ((CY.CNT)	S L1 AND 4-5/CYC	CY.CNT
Designated States (2)	/DS	S FR/DS S R DE/DS	DS, PI
Designated States, Basic (2)	/DS.B	S DE/DS.B	DS, PI
European Classifications (3)	/ECLA (or /EPC or /EPCLA)	S C01B003/ECLA S C01B003/00D2/ECLA	CLASS, ECLA, EPC, EPCLA
Family Accession Number	/FAN	S 1998:98369/FAN	FAN
Family Accession Number Count (1)	/FAN.CNT	S L1 AND FAN.CNT>1	Not displayed
F-Terms (Patent Classifications from the Japanese Patent Office) (4)	/FTERM (or /FTCLA or /JPCLA)	S 4C002/BB03/FTERM S 4C002/FTERM	CLASS, FTERM, FTCLA, JPCLA
ICO (in-computer-only) Classification (3)	/ICO	S K61B0010:00L10/ICO	ECLA, EPC, EPCLA
International Patent Classification, Action Date (1)	/IPC.ACD	S 20050101/IPC.ACD	IPC.TAB
International Patent Classification, Additional or Supplementary (2,7)	/ICA	S B01J/ICA S B01J027/ICA S CYANOGEN/ICA	ICA, CLASS
International Patent Classification, All (5)	/IPC	S A61K/IPC S A61K0031-473/IPC	IPC, CLASS
International Patent Classification, Basic Patent (6)	/IPC.B	S G01N0001-28/IPC.B	IPC.B, CLASS
International Patent Classification, Index or Complementary (2,6)	/ICI	S A61K/ICI S A61K031/ICI S AMMONIA/ICI	ICI, CLASS
International Patent Classification, Keywords	/IPC.KW	S G01N000128/IPC(S)BASIC/IPC.KW	IPC.TAB
International Patent Classification, Main (2,6)	/ICM	S A01N/ICM S A01N025/ICM S AMMONIA/ICM	IC, ICM, CLASS
International Patent Classification, Main and Secondary (2,6)	/IC	S C07C/IC S C07C015/IC S C07C015-04/IC S CYANOGEN/IC	IC, CLASS
International Patent Classification, Main Group, Range Searchable (1,2,6)	/MGR	S 10-20/MGR(S)C07C/IC	IC, CLASS
International Patent Classification, Secondary (2,6)	/ICS	S C02F/ICS S C02F001/ICS S AMMONIA/ICS	IC, ICS, CLASS
International Patent Classification, Subgroup, Range Searchable (1,2,7)	/SGR	S SGR=>30000(S)C01B031/IC	IC, CLASS
International Patent Classification, Version	/IPC.VER	S 6/IPC.VER	IPC.TAB
International Patent Initial Classification	/IPCI	S H01L0023-29/IPCI	IPCI, CLASS

Patent Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
International Patent Reclassification Inventor National Patent Classification, Current (8)	/IPCR /IN /NCL	S C08L0061-00/IPCR S PATTON JERRY R/IN S 106035000/NCL S 106/035.000/NCL S 433/227-433/229/NCL S ZEOLITES/NCL	IPCR, CLASS IN NCL, CLASS
National Patent Classification, Issue (9)	/INCL	S 433228000/INCL S 433/227-433/229/INCL S 433/228.000/INCL	INCL, CLASS
National Patent Classification, Issue, Range Searchable (1)	/NCLR	S 106020000-106040000/NCLR	NCL, CLASS
Patent Application Country	/AC	S DE/AC	AI, PI
Patent Application Country, Basic	/AC.B	S DE/AC.B	AI, PI
Patent Application Date (1,10)	/AD	S AD>19920100 S AD>JANUARY 20, 1993	AI, PI
Patent Application Date, Basic (1,10)	/AD.B	S 19970220/AD.B	AI, PI
Patent Application Number (2,11)	/AP	S EP83-304630/AP S 83EP-0304630/AP S JP87-10001/AP S 87JP-0010001/AP S JP87-10001/AP.B	AI, PI AI, PI
Patent Application Number, Basic (2,11)	/AP.B		AI, PI
Patent Application Year (1,10)	/AY	S 1990-1992/AY	AI, PI
Patent Application Year, Basic (1,10)	/AY.B	S AY.B>1997	AI, PI
Patent Assignee (12)	/PA	S PFIZER/PA S PFIZER CORP/PA S BADISCHE ANILIN/PA OR BASF/PA	PA
Patent Country	/PC	S WO/PC	PI
Patent Country, Basic	/PC.B	S JP/PC.B	PI
Patent Kind Code (2)	/PK	S DEA1/PK	PI
Patent Kind Code, Basic (2)	/PK.B	S DEA1/PK.B	PI
Patent Number (11)	/PN	S EP536930/PN S EP-536930/PN S WO8402426/PN S JP04000104/PN S JP62000031/PN S IP6243D/PN	PI
Patent Number, Basic (11)	/PN.B	S JP60008341/PN.B	PI
Patent Number Count (1)	/PNC (PN.CNT)	S 3/PNC	PN.CNT
Patent Number/Kind Code	PNK	S US20050136407/PNK	PNK
Patent Number/Kind Code of the Basic Patent	PNK.B	S US20050136407/PNK.B	PNK.B
Priority Application Country	/PRC	S US/PRC	PRAI
Priority Application Country, Basic	/PRC.B	S US/PRC.B	PRAI
Priority Application Date (1,10)	/PRD	S PRD>19910600 S June 20 1991/PRD	PRAI
Priority Application Date, Basic (1,10)	/PRD.B	S PRD.B>19940100	PRAI
Priority Application Number (2,11,13)	/PRN	S US91-635890/PRN S 91US-0635890/PRN S IP2002-6243D/PRN	PRAI
Priority Application Number, Basic (2,11,13)	/PRN.B	S US91-721765/PRN.B	PRAI

Patent Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Priority Application Year (1,10) Priority Application Year, Basic (1,10)	/PRY /PRY.B	S 1990-1992/PRY S 1997/PRY.B	PRAI PRAI
Publication Date (Patent, Basic) (1) Publication Year (Patent, Basic) (1) Update Date Patent Family (1,2) Update Date, Maximum (contains /UP and /UPP) (1,2)	/PD.B /PY.B /UPP /UPM	S 19980109/PD.B S 1990-1991/PY.B S US5837509/PN AND UPP>19990100 S L1 and UPM>=20040400	PI PI PI PI

- (1) Numeric search field that may be searched with numeric operators or ranges.
- (2) Content of this field is available only for records starting in 1967.
- (3) A thesaurus is available in this field.
- (4) Content of this field is available only for records from January 2004 to the present. A thesaurus is available in this field.
- (5) This field contains all IPCs (pre-IPC Reform and post-IPC Reform) for the basic patents and family members. A thesaurus is available in this field.
- (6) This field contains pre-IPC Reform and post-IPC Reform IPCS for the basic patents.
- (7) This field contains the IPCs only for the basic patents published with pre-IPC Reform codes. This field will not be updated with the IPC Reform codes. Use the /IPC field to search all IPCs (pre-IPC Reform and post-IPC Reform) for the basic patent documents and family members.
- (8) This field contains current US Patent Classifications applied to records for basic and family US patents from 1907 to the present. An online thesaurus is available. Current National Patent Classifications may be range-searchable in Manual of Classification order. However, the /NCL field is not a numeric field and may not be searched using numeric operators.
- (9) This field contains US Patent Classifications that were in effect when the patent was originally published. Content is available for basic patents only. An online thesaurus is available. Issued National Patent Classifications may be range-searchable in Manual of Classification order. However, the /INCL field is not a numeric field and may not be searched using numeric operators.
- (10) Data are available from 1962 (Volume 56) to the present.
- (11) Either STN or Derwent format may be used.
- (12) Search with implied (S) proximity is available in this field.
- (13) U.S. provisional priority numbers are searched only with the P appended, e.g., US1999-121903P/PRN.

Super Search Fields

Enter a super search code to execute a search in one or more fields that may contain the desired information. Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields. Use EXPAND with the individual field codes instead.

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Old version of the /IPC super search field (1)	/IPC.OLD	/IC, /ICA, /ICI	S A01B/IPC/OLD S A01B001/IPC.OLD	IC, ICA, ICI
Patent Application and Priority Number (2,3)	/APPS	/AP, /PRN	S DE84-3400052/APPS S 84DE-3400052/APPS	AI, PI, PRAI
Patent Application and Priority Number, Basic (2,3)	/APPS.B	/AP.B, /PRN.B	S DE84-3400052/APPS.B	AI, PI, PRAI
Patent Countries	/PCS	/PC, /DS	S DE/PCS	DS, PI
Patent Countries, Basic	/PCS.B	/PC.B, /DS.B	S AT/PCS.B	DS, PI
Patent Numbers (3)	/PATS	/PN	S EP536930/PATS S EP-536930/PATS S WO8402426/PATS S JP04000104/PATS S JP62000031/PATS	PI, SO
Patent Numbers, Basic (3)	/PATS.B	/PN.B	S WO9850074/PATS.B	PI, SO

- (1) Numeric search field that may be searched with numeric operators or ranges.
- (2) Content of this field is available only for records from 1967 to the present.
- (3) Either STN or Derwent format may be used.

Cited References Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Cited Reference (contains referenced author, inventor, or assignee, year, volume, page, work title, and patent number)	/RE	S BLONDELLE S, 1999?/RE S DE 3604874?/RE	RE
Cited Reference Accession Number in CAPLUS	/RAN.CAPLUS	S 1995:998201/RAN.CAPLUS	Not displayed
Cited Reference Accession Number in MEDLINE	/RAN.MED	S 96233652/RAN.MED	Not displayed
Cited Reference Author Name	/RAU	S O REILLY/RAU	RE
Cited Reference File Availability	/FILE.CIT	S L1 AND CAPLUS/FILE.CIT S L1 AND MEDLINE/FILE.CIT	Not displayed
Cited Reference Inventor Name	/RIN	S ABBOTT ?/RIN	RE
Cited Reference Page Number (first)	/RPG	S 200/RPG	RE
Cited Reference Patent Country Code	/RPC	S DE/RPC	RE
Cited Reference Patent Kind Code	/RPK	S DEA1/RPK	RE
Cited Reference Patent Number	/RPN	S US5792845/RPN	RE
Cited Reference Publication Year (1)	/RPY	S 1997-1998/RPY	RE
Cited Reference Series Issue Number	/RIS	S (2 OR 3)/RIS	RE
Cited Reference Series Volume Number	/RVL	S (3 OR 4)/RVL	RE
Cited Reference Source Information (contains year, volume, issue, page, and publication title) (2)	/RSO	S (MOL AND BIOL AND 1997)/RSO	RE
Cited Reference Work (Publication Title)	/RWK	S CANCER RES/RWK	RE
Cited References Count (1)	/RE.CNT (or /REC)	S REC>0 S 1-20/RE.CNT	RE RE.CNT

(1) Numeric search field that may be searched with numeric operators or ranges.

(2) Search with implied (S) proximity is available in this field.

Citing References Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Citing Reference Accession Numbers	/OS.G (/OS.CITING.AN)	S 2008:610804/OS.G	OS.G
Citing Reference Count	/OSC.G (/CITING.CNT)	S 2-5/OSC.G	OSC.G
Date Last Citing Reference Entered STN	/UPOS.G (/CITING.UP)	S 16 Feb 2009/UPOS.G S UPOS.G>20090216	UPOS.G
Update Date, Citing Reference	/UPOG	S 20091026/UPOG	UPOS.G

REGISTRY Search Fields

You can search directly in CAplus any REGISTRY search term, including structures, with REG1stRY. To search a REGISTRY term in CAplus, enter the SEARCH command and your term followed by the REGISTRY field code, and then followed by /REG, e.g., SEARCH FENFLURAMINE/CN/REG. The REGISTRY search and crossover to CAplus are executed automatically, and only the final CAplus answer set L-number is shown.

To suppress the automatic REG1stRY processing when searching CAS Registry Numbers® in CAplus, enter SET REG1stRY OFF at an arrow prompt (=>). To retain the OFF setting beyond the current session, enter SET REG1stRY OFF PERM at an arrow prompt.

Enter HELP FIRST at an arrow prompt in CAplus for more information.

CA Section (/CC) Thesaurus

The CA Section (/CC) thesaurus is available for records from 1907 to the present.

All Relationship Codes may be used with both the SEARCH and EXPAND commands in the /CC thesaurus.

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, NOTE, HNTE, OLD, CUR, REPL, NT)	E 57 CERAMICS, 1967 TO PRESENT+ALL/CC
BT	Broader Terms (BT, SELF)	E 1 PHARMACOLOGY, 1982 TO PRESENT+BT/CC
CUR	Current Terms (SELF, CUR)	E 1 PHARMACODYNAMICS, 1972-1981+CUR/CC
HIE	Hierarchy (Broader and Narrower Terms) (BT, SELF, NT)	E 31 ALKALOIDS, 1967 TO PRESENT+HIE/CC
HIS	History (SELF, HNTE, CUR, OLD, REPL)	E 17 FOOD AND FEED CHEMISTRY, 1982 TO PRESENT+HIS/CC
HNTE	History Note (SELF, HNTE)	E 1 PHARMACOLOGY, 1982 TO PRESENT+HNTE/CC
KT	Keyword Terms (SELF, KT)	E TOXICITY+KT/CC
NOTE	Notes associated with the term (SELF, NOTE, HNTE)	E 4 TOXICOLOGY, 1972 TO PRESENT+NOTE/CC
NT	Narrower Terms (SELF, NT)	E 4 TOXICOLOGY, 1972 TO PRESENT+NT/CC
RT	Related Terms (SELF, RT)	E 33 CARBOHYDRATES, 1967 TO PRESENT+RT/CC
STD	Standard (Broader Terms, Notes, Narrower Terms) (BT, SELF, HNTE, NOTE, NT)	E 32 STEROIDS, 1967 TO PRESENT+STD/CC
UF	Used For (Forbidden Terms) (SELF, UF)	E 32 STEROIDS, 1967 TO PRESENT+UF/CC
USE	Use (Preferred Terms) (SELF, USE)	E IMMUNOCHEMISTRY+USE/CC

Field Descriptors for the /CC Thesaurus

Code	Description
→	Self
BT	Broader Term (CA section grouping)
CUR	Current Term (current CA section)
HNTE	History Note (section history note)
KT	Keyword Terms (thesaurus terms containing the SELF term)
NOTE	Note (CA section content note)
NT	Narrower Term (subsections for CA sections from 1972 to the present)
OLD	Old Term (previously used sections)
REPL	Replacing Term (more recent, but not current, section)
RT	Related Term (related concurrently existing sections)
UF	Used For Term (non-preferred terms or sections)
USE	Use Term (Preferred Terms)

Company Name (/CO) Thesaurus Search Aid

The Company Name thesaurus search aid is available in the /CO field with the most frequently occurring major company names for records from 1907 to the present.

All Relationship Codes may be used with both the SEARCH and EXPAND commands in the /CO field.

Code	Content	Examples
ALL	All Associated Terms (CNUM, NAME, SELF, RT, JV, NOTE)	E DOW CHEMICAL CO+ALL/CO
CNUM	CAS Assigned Number (CNUM, SELF, NOTE, NAME, RT, JV)	E HONDA MOTOR CO LTD+CNUM/CO
JV	Joint Venture (SELF, JV, NAME, NOTE)	E BAYER AG+JV/CO
NAME	Highest level company name information (NAME, SELF, NOTE, RT, JV)	E DOW CHEMICAL+NAME/CO E ANGUS CHEMICAL COMPANY+NAME/CO
NOTE	Note (SELF, NOTE)	E CANON INC+NOTE/CO
RT	Related Term (SELF, RT, NAME, NOTE)	E CANON INC+RT/CO

Field Descriptors for the /CO Thesaurus Search Aid

Code	Description
→	Self
NAME	Preferred name for the highest level company name
CNUM	CAS Assigned Number to identify each company family
JV	Joint Ventures
NOTE	Note associated with the term
RT	Related Term

Controlled Term (/CT) Thesaurus for the CA Lexicon

The CA Lexicon is an online search tool for the CA indexing terms for concepts, chemical classes, and taxonomic vocabulary. The thesaurus is available for records from 1967 to the present.

All Relationship Codes may be used with both the SEARCH and EXPAND commands in the /CT thesaurus.

Code	Content	Examples
ALL	All Associated Terms except for LT terms (BT, SELF, HN, NOTE, UF, USE, OLD, NEW, NT, RT, RTCS)	E AZO DYES+ALL/CT
BT	Broader Terms (BT, SELF, HN)	E BRAIN+BT/CT
HIE	Hierarchy (Broader and Narrower Terms) (BT, SELF, NT)	E TRITERPENES+HIE/CT
KT	Keyword Terms (SELF, KT)	E DYES+KT/CT
HN	History Note (HN)	E PHOTOLYSIS+HN/CT
LT	Linking Terms (index heading modifying term)	E RADIOLYSIS+LT/CT
MAX	All Associated Terms, including LT terms (BT, SELF, HN, NOTE, UF, USE, OLD, NEW, NT, RT, RTCS, LT)	E DRUG DELIVERY SYSTEMS+MAX/CT
NEW	New Terms (replace OLD terms)	E NEOPLASM INHIBITORS+NEW/CT
NOTE	Notes associated with the term (SELF, HN, NOTE)	E FISH+NOTE/CT
NT	Narrower Terms (SELF, NT)	E ANTIBIOTICS+NT/CT
OLD	Old term (replaced by NEW term)	E ANTITUMOR AGENTS+OLD/CT
PFT	Preferred and Forbidden Terms (SELF, OLD, NEW, USE, UF)	E PERFUMES+PFT/CT
RT	Related Terms (SELF, RT, RTCS)	E PHOTORESISTS+RT/CT
RTCS	Related Chemical Substance Terms (SELF, RTCS)	E REFRIGERANTS+RTCS/CT
STD	Standard Terms (SELF, BT, HN, NOTE, NT, RT, RTCS)	E SUNSCREENS+STD/CT
UF	Used For (Forbidden Terms) (SELF, UF)	E ARECA CATECHU+UF/CT
USE	Use (SELF, USE)	E BETEL NUT+USE/CT

Field Descriptors for the /CT Thesaurus

Code	Description
→	Self
BT	Broader Term
HN	History Note
KT	Keyword Terms
NOTE	Indexing Note
NT	Narrower Term
RT	Related Term
UF	Used For
USE	Use
RTCS	Related Chemical Substance Terms
LT	Linking Terms (index heading modifying term)
OLD	Old term (replaced by NEW term)
NEW	New Terms (replace OLD terms)

European Patent Classification (/ECLA or /EPC) and ICO Thesauri

These thesauri are available in the /EPC search field (for ECLA codes) and /ICO search field (for in-computer-only codes). All relationship codes can be used with both the EXPAND and SEARCH commands.

Relationship Code	Content	Search Examples
ALL	All associated terms	E C12M0001-34H2+ALL/EPC
AUTO (1)	Automatic relationship (BT, SELF, CODE, DEF)	E G01J003-443+AUTO/EPC
BT	Broader terms (BT, SELF, DEF)	E G01J0003-443+BT/EPC
CODE	Classification Code (SELF, CODE)	E SCRAPER BIASING MEANS+CODE/EPC
DEF	Definition (SELF, DEF)	E B65G0045-16+DEF/EPC
HIE	Hierarchy terms (all broader and narrower terms) (BT, SELF, DEF, NT)	E A01B0001+HIE/EPC
KT	Keyword terms (SELF, KT)	E LASER+KT/EPC
MAX	All associated terms	E G01J0003-44B+MAX/EPC
NEXT	Next classification within the same class (SELF, NEXT, DEF)	E A01B0001-24+NEXT/EPC
NEXT(n)	Next n classification within the same class	E A01B0001-24+NEXT3/EPC
NT	Narrower terms (SELF, NT, DEF)	E G05B0001-04+NT/EPC
PREV	Previous Code within the same class (PREV, SELF, DEF)	E G05B0019-418N1+PREV/EPC
PREV(n)	Previous n codes within the same class	E G05B0019-418N1+PREV2/EPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF, DEF)	E G05B0001-03+TI/EPC

(1) Automatic Relationship is SET OFF. In case of SET REL ON the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

F-Term (/FTERM) Thesaurus

This thesaurus is available in the F-Term (/FTERM) field that contains patent classifications from the Japanese Patent Office in records from January 2004 to the present.

Code	Content	Example
ALL	All Associated Terms (BT, SELF, TI, NT)	E 4K001/AA16+ALL/FTERM
BRO(n)	Browse n preceding and following Classifications	E 4K001/AA20+BRO3/FTERM
BT	Broader Terms (BT, SELF)	E 4K001/AA25+BT/FTERM
HIE	Hierarchy (BT, SELF, NT)	E 4K001/AA14+HIE/FTERM
NEXT(n)	Next n Classifications	E 4K001/AA16+NEXT5/FTERM
NT	Narrower Terms (SELF, NT)	E 4K001+NT/FTERM
PREV(n)	Previous n Classifications	E 5K002+PREV3/FTERM
RT	Related term	E 4K001+RT/FTERM
TI	Complete Title of the SELF Term	E 4K001/AA07+TI/FTERM

Field Descriptors for the F-Term Thesaurus

Code	Description
→	Self
BT	Broader Term
NT	Narrower Term
TI	Title

IPC Thesauri

The classifications and catchwords for the main headings and subheadings from the current (8th) edition of the WIPO International Patent Classification (IPC) manual are available. The classifications from the previous editions (1-7) are also available as separate thesauri. To EXPAND and SEARCH in the thesauri for editions 1-7, use the field code followed by the edition number, e.g., /IPC2, for the 2nd edition. Catchwords are included only in the thesauri for the 8th, 7th, 6th, and 5th editions. The IPC thesauri are available for records from 1967 to the present.

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IPC
ADV	Advanced Terms (SELF, ADVANCED)	E A01N0047-02+ADV/IPC
BRO (MAN)	Complete Class	E C01C+BRO/IPC
BT	Broader Terms (SELF, BT)	E C01F001-00+BT/IPC
COR	Core Terms (SELF, CORE)	E A01N0047-04+COR/IPC
ED	Complete title of the SELF term and IPC manual edition	E C01F001-00+ED/IPC
HIE	Hierarchy Terms (Broader and Narrower Terms) (BT, SELF, NT)	E C01C003-00+HIE/IPC
INDEX	Complete title of the SELF term	E C01F001-00+INDEX/IPC
KT	Keyword Terms (catchwords) (SELF, KT)	E CYANOGEN+KT/IPC
NEXT	Next Classification	E C01C001-00+NEXT5/IPC
NT	Narrower Terms (SELF, NT)	E C01C+NT/IPC
PREV	Previous Classification	E C01C001-12+PREV10/IPC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IPC

Field Descriptors for the IPC Thesauri

Code	Description
→	Self
BT	Broader Term
KT	Keyword Term
NT	Narrower Term
RT	Related Term
TI	Title

National Patent Classification Thesauri

A thesaurus is present for the National Patent Classification, Current (/NCL) and National Patent Classification, Issue (/INCL) fields.

Code	Content	Example
ALL	All Associated Terms (BT, SELF, TI, NT)	E 210190000+ALL/NCL
BRO(n)	Browse n preceding and following Classifications	E 502060000+BRO3/NCL
BT	Broader Terms (BT, SELF)	E 502060000+BT/NCL
HIE	Hierarchy (BT, SELF, NT)	E 502060000+HIE/NCL
KT	Keyword Terms (SELF, KT) (1)	E ZEOLITES+KT/NCL
NEXT(n)	Next n Classifications	E 210660000+NEXT5/NCL
NT	Narrower Terms (SELF, NT)	E 502060000+NT/NCL
PREV(n)	Previous n Classifications	E 210665000+PREV3/NCL
RT	Related Term	E 220+RT/NCL
TI	Complete Title of the SELF Term	E 502060000+TI/NCL

(1) Keyword terms are the catchwords corresponding to the USPTO Manual of Classifications subject index headings and subheadings.

Field Descriptors for the National Patent Classification Thesauri

Code	Description
→	Self
BT	Broader Term
KT	Keyword Term
NT	Narrower Term
TI	Title

Role (/RL) Thesaurus

The Role (/RL) thesaurus is available for records from 1967 to the present.

Code	Content	Examples
ALL	All Associated Terms, including Notes (BT, SELF, NOTE, NT)	E SPN+ALL/RL
BT	Broader Terms (SELF, BT)	E CAT+BT/RL
HIE	Hierarchy Terms (Broader and Narrower Terms) (BT, SELF, NT)	E FFD+HIE/RL
NOTE	Any Notes (role definitions) (SELF, NOTE)	E IMF+NOTE/RL
NT	Narrower Terms (SELF, NT)	E USES+NT/RL

Field Descriptors for the Role Thesaurus

Code	Description
→	Self
BT	Broader Term
NOTE	Note
NT	Narrower Term

DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI AU; D L1 1-5 TI, AU. The fields are displayed or printed in the order requested.

Hit-term highlighting is available in all fields except FAN. In the table-like display of the Patent Information (PI) field, highlighting is shown by an arrow on the right side pointing to the line that includes the hit terms. Highlighting must be on during SEARCH in order to use the FHITSEQ, FHITSTR, HIT, HITIND, HITRN, HITSEQ, HITSTR, KWIC, and OCC display formats.

Format	Content	Examples
AB	Abstract Text	D TI AB
AI (AP) (1,2)	Patent Application Information	D AI
AI.B (AP.B) (1,2)	Patent Application Information, Basic	D AI.B
AN	Accession Number, Document Number, and Original Reference Number	D 1-5 AN
AU	Author Name	D AU, TI
CC	CA Classification Code (CA section and section cross-references)	D CC
CS	Corporate Source	D TI AU CS
CT (2)	Controlled Term	D CT
CUR (3)	Patent Currency Status	D CUR ALL
CYA (2)	Country of Author	D CYA
CYC (CY.CNT) (2)	Patent Country Count	D CYC
DN	Document Number (CA Reference Number)	D DN
DS (2)	Designated States	D DS
DS.B (2)	Designated States, Basic	D DS.B
DT (TC)	Document Type	D DT
ECLA	Patent Family European Classifications associated with patent numbers	D ECLA
ED (2)	Entry Date	D ED
FS (2)	File Segment	D FS
FTERM	File Forming Terms from the Japanese Patent Office associated with patent numbers	D FTERM
GI (2)	Graphic Image or Graphic Image Information	D GI
ICA	Additional or Supplementary IPC	D ICA
ICI	Index or Complementary IPC	D ICI
ICM	Main IPC	D ICM
ICS	Secondary IPC	D ICS
IN	Inventor Name	D IN
INCL	Issued National Classification	D INCL
IPC.B	IPC of the Basic Patent	D IPC.B
IPC.TAB	IPC, Tabular Display	D IPC.TAB
IPC.UNIQ	IPC codes unique for a basic patent and equivalents	D IPC.UNIQ
IPCI	IPC Initial Classification	D IPCI
IPCR	IPC Reclassification	D IPCR
ISN (2)	International Standard (Document) Number	D ISN
IT (4)	Index Term and Role	D AN IT
JT (2)	Journal Title	D JT
JTA (2)	Journal Title, Abbreviated	D JTA
JTF (2,6)	Journal Title, Full	D JTF 1-3
LA	Language	D LA
LSUS (2)	Legal status information for U.S. patents	D LSUS
NCL	National Patent Classification, Current	D PI IC NCL

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
OREF (5) OS OS.G (OS.CITING.AN) OSC.G (CITING.CNT) PA PB PI (1) PI.B (PN.B) (1,2) PN PNC (PN.CNT) (2) PNK PNK.B PRAI (PRN) (1) PRAI.B (PRN.B) (1,2) PUI (2) PY (2) PY.B (2) RE (5) RETABLE (2,5) RE.CNT (REC) (5) RL (4) RN (2) SO ST SX (2,7) TI UPOS.G (CITING.UP) URL (2)	Original Reference Number Other Source Citing Reference Accession Numbers Citing Reference Count Patent Assignee Publisher Patent Information Table Patent Information, Basic Patent Number Patent Number Count Patent Number/Kind Code Patent Number/Kind Code of the Basic Patent Priority Application Information Priority Application Information, Basic Publisher Item Identifier Publication Year Publication Year, Basic Cited References Cited References Table Cited References Count Index Term and Role CAS Registry Number Source Supplementary Term (CA Keyword) CA Section Cross Reference Code Title of Document Date Last Citing Reference Entered STN Uniform Resource Locator	D OREF D TI OS D OS.G D OSC.G D PA D PB D TI PI D PI.B D PN D PNC D PNK D PNK.B D PRAI D PRAI.B D PUI D TI PY D TI PY.B D TI RE D TI AU RETABLE D REC D RL D AN RN D TI AU SO D ST D TI SX DIS TI 1-10 D OS.G D URL
ABS ALL (1,4) APPS (1) BIB (1) CAN CBIB (1) CLASS DALL (1,4) DMAX (1,4) FAM FAN FBIB (1) IABS IALL (1,4) IBIB IMAX (1,4) IND (4) IPC IPC.TAB IPC.UNIQ IPCI IPCR ISTD (1) MAX (1,4)	GI, AB AN, DN, OREF, ED, TI, AU, IN, CS, PA, SO, PB, DT, LA, INCL, CC, FAN.CNT, PI, PRAI, CLASS, OS, GI, AB, ST, IT, RL, OSC.G, UPOS.G, OS.G, RE.CNT, RE AI, PRAI AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS, OSC.G, RE.CNT (BIB is the default) List of CA Abstract Numbers, no L-number headers AN, DN, OREF, plus compressed bibliographic data Classifications (IPC, ECLA, NCL, and FTERM codes) associated with basic patent and family members ALL, delimited for post-processing MAX, delimited for post-processing AN, DN, FAN.CNT, PI for the accession number, plus PI for other family accession numbers Family Accession Number (AN, FAN.CNT, FAN) BIB plus PI for other family accession numbers ABS, with text labels ALL, indented with text labels BIB, indented with text labels MAX, indented with text labels INCL, IPCI, IPCR, NCL, CC, ST, IT, RL IPC, for the basic patent and patent family members IPC, Tabular Display IPC codes unique for a basic patent and equivalents IPC Initial Classification IPC Reclassification STD, indented with text labels ALL, plus FAN and PI for other family accession numbers	D ABS D 1-30 ALL D APPS D 1 3 D CAN D L2 1 CBIB D CLASS D DALL D MAX D FAM D FAN D FBIB D IABS D IALL D IBIB D IMAX D TI IND D L2 1 IPC D IPC.TAB D IPC.UNIQ D IPCI D IPCR D ISTD D MAX

DISPLAY and PRINT Formats (cont'd)

OBIB (1)	BIB, Original, without patent family data (AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, PI, DS, AI, PRAI, DT, LA, OS)	D OBIB
OIBIB (1)	OBIB, indented with text labels	D OIBIB
OSG	OSC.G, UPOS.G, OS.G (up to 50 accession numbers)	D OSG
OSG.MAX	OSC.G, UPOS.G, and OS.G (up to 1020 accession numbers)	D OSG.MAX
OS.GMAX	OS.G (up to 1020 accession numbers)	D OS.GMAX
PAGE (8)	Page images of CA pages containing the AN of a record	D PAGE
PATS (1)	PI, SO	D PATS
SAM (4)	INCL, IPCI, IPCR, NCL, CC, TI, ST, IT, RL	DIS SAM 1-5
SCAN (4,5,9)	INCL, IPCI, IPCR, NCL, CC, TI, ST, IT, RL (random display, no answer numbers)	D SCAN
SBIB (1)	BIB, Standard, without RE.CNT (AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS)	D 1 3 SBIB
SIBIB (1)	SBIB, indented with text labels	D SIBIB
STD (1)	AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, INCL, FAN.CNT, PI, PRAI, CLASS, OS, OSC.G, RE.CNT	D STD
XML	BIB AB in XML format	D XML
FHITSEQ	First hit CAS Registry Number, its role, text modification, its CA index name, and the sequence diagram	D CBIB FHITSEQ
FHITSTR	First hit CAS Registry Number, its role, text modification, its CA index name, and the structure diagram	D CBIB FHITSTR
HIT	Fields containing hit terms	D HIT 1-5
HITIND	NCL, CC, ST, IT, and RL containing hit terms	D HITIND
HITRN	Hit CAS Registry Number, its role, and text modification	D HITRN
HITSEQ	Hit CAS Registry Number, its role, text modification, its CA index name, and its sequence diagram	D HITSTR KWIC
HITSTR	Hit CAS Registry Number, its role, text modification, its CA index name, and its structure diagram	D HITSTR KWIC
IPC.HIT (HITIPC)	Hit IPC	D IPC.HIT or D HITPIC
KWIC	Hit terms plus 20 words on either side (Key-Word-In-Context)	D 1-7 TI KWIC
OCC (5)	Number of occurrences of hit terms and fields in which they occur	D OCC

- (1) By default, patent, application, and priority numbers are displayed in STN format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN format, enter SET PATENT STN.
- (2) Custom display only.
- (3) CUR must be entered on the command line, e.g., D CUR. The patent status information displays before the requested records.
- (4) By default, roles are displayed as codes and text. To suppress display of role codes and text, enter SET ROLES OFF. To display only codes, enter SET ROLES CODES.
- (5) No online display fee for this format.
- (6) Full journal titles are available for most records.
- (7) SX displays all information in the CC field, i.e., CA section and section cross-references.
- (8) The PAGE format is used in the DISPLAY command to download images of pages of printed CA with abstracts published in 1907-1998. If the abstract is located on more than one page, all the relevant pages are automatically downloaded.
- (9) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

Displaying CAplus or MEDLINE documents for cited references

Enter the following in the DISPLAY command: L-number for the answer set; answer number (only one may be specified); RAN.CAPLUS(x-y), RAN.MED(x-y) where (x-y) is the cited reference number, numbers, or range of numbers; and the display format for the document to display, e.g., BIB ABS. For example, to display Caplus records for the cited references 1 and 2 from answer 2 in the answer set L5, enter the following:

=> **D RAN.CAPLUS(1-2) L5 2 BIB ABS**

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y (2)	N
Author	AU	Y	Y
CA Classification Code (section and subsection)	CC	Y	Y
CA Section Cross-Reference	SX	Y	Y
CAS Registry Number	RN	Y (3)	N
Citation	CIT	Y (4,5)	N
Cited References	RE	N	N
Cited Reference(n)	RE(n)	Y	N
Cited Reference Accession Number in CAplus	RAN.CAPLUS	Y (6)	N
Cited Reference Accession Number(n) in CAplus	RAN.CAPLUS(n)	Y (6)	N
Cited Reference Accession Number in MEDLINE	RAN.MED	Y (6)	N
Cited Reference Accession Number(n) in MEDLINE	RAN.MED(n)	Y (6)	N
Cited Reference Author Name	RAU	Y	N
Cited Reference Count	RE.CNT	Y	Y
	REC	Y	Y
Cited Reference Patent Number	RPN	Y	N
Cited Reference Publication Year	RPY	Y	N
Cited Reference Work Title	RWK	Y	N
Citing Reference Accession Numbers	OS.G (OS.CITING.AN)	Y	N
Citing Reference Count	OSC.G (CITING.CNT)	Y	Y
Citing Reference Date	UPOS.G (CITING.UP)	Y	Y
CODEN	CODEN	Y (7)	Y
Company Name	CO	Y	Y
Controlled Term	CT	Y	N
Corporate Source	CS	Y	Y
Corporate Source, Division	CS.DIV	Y	N
Corporate Source, Organization	CS.ORG	Y	N
Country of Author	CYA	Y	Y
Designated States	DS	Y	N
Designated States, Basic	DS.B	Y (5,8)	N
Document Number	DN	Y	N
Document Type	DT	Y	Y
Entry Date	ED	Y	Y
European Classifications	ECLA	Y	N
Family Accession Number	FAN	Y (5,6)	N
File Forming Terms	FTERM	Y	N
File Segment	FS	Y	Y
HIT Cited Reference	HITRE	N	Y
Index Term	IT	Y	N
International Standard Book Number	ISBN	Y (7)	Y
International Standard (Document) Number	ISN	Y	N
International Standard Serial Number	ISSN	Y (7)	Y
Inventor Name	IN	Y	Y
IPC, All	IPC	Y (9)	N
IPC, Initial Classification	IPC1	Y	N
IPC, Reclassification	IPCR	Y	N
IPC, Additional or Supplementary	ICA	Y	Y
IPC, Advanced	IPC.A	Y (9)	N

SELECT, ANALYZE, and SORT Fields (cont'd)

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
IPC, Advanced Level for Invention	IPC.AI	Y (9)	N
IPC, Basic Patent	IPC.B	Y (9)	N
IPC, Core	IPC.C	Y (9)	N
IPC, Core Level for Invention	IPC.CI	Y (9)	N
IPC, First	IPC.F	Y (9)	N
IPC, Index or Complementary	ICI	Y	Y
IPC, Main	ICM	Y	Y
IPC, Main and Secondary	IC	Y	Y
IPC, Secondary	ICS	Y	Y
Issued National Classification	INCL	Y	Y
Journal Title	JT	Y	Y
Journal Title, Abbreviated	JTA	Y (10)	Y
Journal Title, Full	JTF	Y (10)	Y
Language	LA	Y	Y
National Patent Classification, Current	NCL	Y	N
Occurrence of Hit Terms	OCC	N	Y
Original Reference Number	OREF	Y (5,6)	N
Other Source	OS	Y	Y
Patent Application Country	AC	Y (5)	Y
Patent Application Country, Basic	AC.B	Y (5,11)	Y
Patent Application Date	AD	Y (5)	Y
Patent Application Date, Basic	AD.B	Y (12)	Y
Patent Application Information	AI	Y (5,13,14)	Y
Patent Application Information, Basic	AI.B	Y (13,14)	Y
Patent Application Number	AP	Y (5,14)	Y
Patent Application Number, Basic	AP.B	Y (5,13,14)	Y
Patent Application and Priority Number	APPS	Y (5,13,15)	N
Patent Application and Priority Number, Basic	APPS.B	Y (5,13,15)	N
Patent Application Year	AY	Y	Y
Patent Application Year, Basic	AY.B	Y (16)	Y
Patent Assignee	PA	Y	Y
Patent Countries	PCS	Y (5,17)	N
Patent Countries, Basic	PCS.B	Y (5,17)	N
Patent Country	PC	Y (5)	Y
Patent Country, Basic	PC.B	Y (5,18)	Y
Patent Country Count	CYC	Y (19)	N
Patent Information	PI	Y (5,14,20)	Y
Patent Information, Basic	PI.B	Y (14,20)	Y
Patent Kind Code	PK	Y (5)	Y
Patent Kind Code, Basic	PK.B	Y (5,21)	Y
Patent Number	PN	Y (5,14)	Y
Patent Number, Basic	PATS	Y (5,14,22)	N
	PN.B	Y (14,23)	Y
	PATS.B	Y (5,14,22)	N
Patent Number Count	PNC	Y (24)	N
Patent Number/Kind Code	PNK	Y	N
Patent Number/Kind Code of the Basic Patent	PNK.B	Y	N
Priority Application Country	PRC	Y (5)	Y
Priority Application Country, Basic	PRC.B	Y (5,25)	Y
Priority Application Date	PRD	Y (5)	Y
Priority Application Date, Basic	PRD.B	Y (26)	Y
Priority Application Information	PRAI	Y (5,14,27)	Y
Priority Application Information, Basic	PRAI.B	Y (14,27)	Y
Priority Application Number	PRN	Y (5,14)	Y
Priority Application Number, Basic	PRN.B	Y (14,27)	Y

SELECT, ANALYZE, and SORT Fields (cont'd)

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Priority Application Year	PRY	Y (5)	Y
Priority Application Year, Basic	PRY.B	Y (5,28)	Y
Publication Date	PD	Y (5)	Y
Publication Date, Basic	PD.B	Y (5,29)	Y
Publication Year	PY	Y	Y
Publication Year, Basic	PY.B	Y (30)	Y
Publisher	PB	Y	N
Publisher Item Identifier	PUI	Y	N
Role	RL	Y (5)	N
Source of Document	SO	Y (31)	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	Y (32)	Y
Uniform Resource Locator	URL	Y	N

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT RN.
- (2) Selects or analyzes AN and DN and appends /AN to the terms created by SELECT.
- (3) Appends /BI to the terms created by SELECT.
- (4) Extracts first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
- (5) SELECT HIT and ANALYZE HIT are not valid with this field.
- (6) Appends /AN to the terms created by SELECT.
- (7) Appends /ISN to the terms created by SELECT.
- (8) Appends /DS to the terms created by SELECT.
- (9) Selects specified IPC codes and appends /IPC to the terms created by SELECT.
- (10) Appends /JT to the terms created by SELECT.
- (11) Appends /AC to the terms created by SELECT.
- (12) Appends /AD to the terms created by SELECT.
- (13) Appends /AP to the terms created by SELECT.
- (14) Enter SET PATENT DERWENT at an arrow prompt to SELECT or ANALYZE patent, application, and priority numbers in Derwent format.
- (15) Appends /APPS to the terms created by SELECT.
- (16) Appends /AY to the terms created by SELECT.
- (17) Appends /PCS to the terms created by SELECT.
- (18) Appends /PC to the terms created by SELECT.
- (19) Appends /CY.CNT to the terms created by SELECT.
- (20) Appends /PN to the terms created by SELECT.
- (21) Appends /PK to the terms created by SELECT.
- (22) Appends /PATS to the terms created by SELECT.
- (23) Appends /PN to the terms created by SELECT.
- (24) Appends /PN.CNT to the terms created by SELECT.
- (25) Appends /PRC to the terms created by SELECT.
- (26) Appends /PRD to the terms created by SELECT.
- (27) Appends /PRN to the terms created by SELECT.
- (28) Appends /PRY to the terms created by SELECT.
- (29) Appends /PD to the terms created by SELECT.
- (30) Appends /PY to the terms created by SELECT.
- (31) Selects or analyzes CODEN and the ISSN and appends /SO to the terms created by SELECT.
- (32) Appends /DT to the terms created by SELECT.

Sample Records

DISPLAY ALL (Journal)

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN
AN 2000:138202 CAPLUS [Full-text](#)
DN 132:221385
ED Entered STN: 01 Mar 2000
TI Production process for recombinant human angiostatin in *Pichia pastoris*
AU Lin, J.; Panigraphy, D.; Trinh, L. B.; Folkman, J.; Shiloach, J.
CS Department of Surgery, Children's Hospital and Harvard Medical School,
Boston, MA, 02115, USA
SO Journal of Industrial Microbiology & Biotechnology (2000), 24(1), 31-35
CODEN: JIMBFL; ISSN: 1367-5435
PB Nature Publishing Group
DT Journal
LA English
CC 16-2 (Fermentation and Bioindustrial Chemistry)
AB A pilot-scale production method of recombinant human angiostatin, a 38-kD fragment of plasminogen which has been reported to have antiangiogenic activity, has been successfully established by expressing the protein in the methylotrophic yeast *Pichia pastoris*. The secreted protein inhibited cultured endothelial cell proliferation in vitro and Lewis lung carcinoma growth in mice. The fermentation process was carried out using an online methanol controller, administering methanol to the growing culture and keeping its concentration under 2 g L⁻¹. The fermentation lasted 90 h, of which 70 h were growth on methanol. During growth on methanol the culture volume increased 64%, from 7 L to 11.5 L, producing 200 mg angiostatin and 5 kg of biomass.
ST recombinant human angiostatin fermn *Pichia*
IT Fermentation
Komagataella *pastoris*
(production process for recombinant human angiostatin in *Pichia pastoris*)
IT 86090-08-6P, Angiostatin
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)
(production process for recombinant human angiostatin in *Pichia pastoris*)
IT 67-56-1, Methanol, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(production process for recombinant human angiostatin in *Pichia pastoris*)
OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
UPOS.G Date last citing reference entered STN: 03 Nov 2010
OS.G CAPLUS 2010:1328434; 2010:548903; 2009:1288101; 2009:637424; 2007:75901;
2005:702147; 2005:3368; 2003:236743; 2001:230866
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE CITED REFERENCES
(1) Brierley, R; Ann NY Acad Sci 1990, V589, P350 CAPLUS
(2) Brierley, R; WO 9003431 International Patent (PCT) Application 1989 CAPLUS
(3) Chen, Y; Proc Biochem 1997, V32, P107
(4) Folkman, J; Proc Natl Acad Sci 1979, V76, P5217 MEDLINE
(5) Guarna, M; Biotechnol Bioeng 1997, V56, P279 CAPLUS
(6) Holmgren, L; Nature Med 1995, V1, P149 CAPLUS
(7) Hsiao, J; Ann NY Acad Sci 1992, V665, P320 CAPLUS
(8) Invitrogen Corp; A Manual of Methods of Expression of Recombinant Proteins in *Pichia pastoris* 1998
(9) Loewen, M; Appl Microbiol Biotechnol 1997, V48, P480 CAPLUS
(10) Mateles, R; Biotechnol Bioeng 1971, V13, P581 CAPLUS
(11) O'Reilly, M; Cell 1994, V79, P315 CAPLUS
(12) Romanos, M; Curr Opin Biotechnol 1995, V6, P527 CAPLUS
(13) Sim, B; Cancer Res 1977, V57, P1329
(14) Sreekrishna, K; Gene 1997, V190, P55 CAPLUS
(15) Sukhatme, P; WO 9929878 International Patent (PCT) application 1999 CAPLUS
(16) Tschopp, J; Nucleic Acid Res 1987, V15, P3859 CAPLUS
(17) Wagner, L; Biotechnol Techniques 1997, V11, P791 CAPLUS
(18) Weidner, N; New Engl J Med 1991, V324, P1 MEDLINE

DISPLAY ALL (7CI PATENT RECORD)

ANSWER 1 CAPLUS COPYRIGHT 2011 ACS on STN

AN 1966:499665 CAPLUS

DN 65:99665

OREF 65:18683h,18684a-b

ED Entered STN: 22 Apr 2001

TI Adamantyl compounds

PA Eli Lilly & Co.

SO 8 pp.

DT Patent

LA Unavailable

IC C07C

CC 44 (Amino Acids, Peptides, and Proteins)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
PI NL 6600403		19660722	NL 1966-403	19660112
PRAI US		19650121		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
-----	-----	-----
NL 6600403	IPCI	C07C
	IPCR	C07C0069-96 [I,A]; C07C0271-34 [I,A]; C07D0207-16 [I,A]; C07K0001-06 [I,A]

AB New adamantyloxycarbonyl derivs. (I) of .alpha.-amino acids were prepd. I includes derivs. of naturally occurring .alpha.-amino acids and is a suitable blocking group in synthesis of peptides, penicillins, or cephalosporins. This blocking group can be removed with F3CCO2H, anhyd. HCl, or by other known methods. Thus, to 20 g. COCl2 in 100 ml. anhyd. C6H6, a mixt. of 8 g. 1-hydroxyadamantane, 6 g. pyridine, and 200 ml. ether was added dropwise at .apprx.20.degree. during 1 hr. to give 1-adamantyl chloroformate, m. 46-7.degree.. Similarly, 3,5-dimethyl-1-hydroxyadamantyl chloroformate, m. .apprx.5-10.degree., and 3-hydroxyhomoadamantyl chloroformate, m. .apprx.0.degree., were prepd. To 151 mg. D-phenylglycine in 2 ml. H2O and 1.2 ml. N NaOH, a soln. of 225 mg. 1-adamantyl chloroformate in 2.5 ml. dioxane and 1 ml. ether was added in 5 portions during 40 min. After addn. of 1 ml. N NaOH, the reaction mixt. was extd. with ether, acidified with 85% H3PO4 to pH 4.5, and extd. with ether to give N-(1-adamantyloxycarbonyl)-D-phenylglycine, m. 119-20.degree.. Also prepd. was the glycine analog, m. 141-2.5.degree..

IT Lactones
(aza)

IT 1195136-23-2P 1195644-85-9P

RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Adamantyl compounds)

IT 7781-05-7 13525-71-8 92906-69-9 93009-71-3

(Derived from data in the 7th Collective Formula Index (1962-1966))

IT 768-95-6P, 1-Adamantanol, chloroformate and N-esters with N-carboxyglycine and D-N-carboxy-2-phenylglycine 776-99-8P, 2-Propanone, (3,4-dimethoxyphenyl)- 5854-52-4P, Formic acid, chloro-, 1-adamantyl ester 5854-56-8P, Glycine, N-carboxy-, N-1-adamantyl ester 5854-63-7P, Glycine, N-carboxy-2-phenyl-, N-1-adamantyl ester, D- 10144-56-6P, 1-Adamantanol, 3,5-dimethyl-, chloroformate 10144-78-2P, 1-Adamantanol, 3-methyl-, chloroformate 10177-46-5P, Formic acid, chloro-, tricyclo[4.3.1.13,8]undec-3-yl ester

RL: PREP (Preparation)

(preparation of)

CAplus/HCAplus/ZCAplus**DISPLAY BIB LSUS (Patent)**

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN
 AN 2008:1028668 CAPLUS [Full-text](#)
 DN 149:264451
 TI MicroRNA expression abnormalities in pancreatic endocrine and acinar tumors
 IN Croce, Carlo M.; Calin, George A.
 PA The Ohio State University Research Foundation, USA
 SO PCT Int. Appl., 133 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007081680	A2	20070719	WO 2007-US24	20070103
	WO 2007081680	A3	20071227		
	W: 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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AP, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, EA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, EP, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, OA, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2007205257	A1	20070719	AU 2007-205257	20070103
	CA 2635616	A1	20070719	CA 2007-2635616	20070103
	EP 1968622	A2	20080917	EP 2007-716208	20070103
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2009521952	T	20090611	JP 2008-549532	20070103
	US 20080306018	A1	20081211	US 2008-160064	20080703
	US 7670840	B2	20100302		
	CN 101384273	A	20090311	CN 2007-80005791	20080818
PRAI	US 2006-756502P	P	20060105		
	WO 2007-US24	W	20070103		
	US 2008-160064	A3	20080703		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ASSIGNMENT HISTORY FOR US 20080306018

LSUS RAD: 20080703
 RAUP: 20081211
 RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
 PAO: CROCE, CARLO M. (DATE EXECUTED: 20080627)
 CALIN, GEORGE A. (DATE EXECUTED: 20080616)
 RAC: THE OHIO STATE UNIVERSITY, 1960 KENNY ROAD, COLUMBUS, OHIO 43210, UNITED STATES
 RAA: MACMILLAN SOBANSKI & TODD, LLC, ONE MARITIME PLAZA FIFTH FLOOR, 720 WATER STREET, TOLEDO, OH 43604-1619
 MRN: 21195 MFN: 793 (5 Page(s))

LSUS RAD: 20090330
 RAUP: 20090330
 RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
 PAO: THE OHIO STATE UNIVERSITY (DATE EXECUTED: 20090327)
 RAC: THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION, 1216 KINNEAR ROAD, COLUMBUS, OHIO 43212, UNITED STATES
 RAA: MACMILLAN, SOBANSKI & TODD, LLC, 720 WATER STREET, ONE MARITIME PLAZA, FIFTH FLOOR, TOLEDO, OH 43604

MRN: 22469 MFN: 445 (4 Page(s))

LSUS RAD: 20080703
RAUP: 20100302
RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
PAO: CROCE, CARLO M. (DATE EXECUTED: 20080627)
CALIN, GEORGE A. (DATE EXECUTED: 20080616)
RAC: THE OHIO STATE UNIVERSITY, 1960 KENNY ROAD, COLUMBUS, OHIO 43210, UNITED STATES
RAA: MACMILLAN SOBANSKI & TODD, LLC, ONE MARITIME PLAZA FIFTH FLOOR, 720 WATER STREET, TOLEDO, OH 43604-1619
MRN: 21195 MFN: 793 (5 Page(s))

LSUS RAD: 20090330
RAUP: 20100302
RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
PAO: THE OHIO STATE UNIVERSITY (DATE EXECUTED: 20090327)
RAC: THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION, 1216 KINNEAR ROAD, COLUMBUS, OHIO 43212, UNITED STATES
RAA: MACMILLAN, SOBANSKI & TODD, LLC, 720 WATER STREET, ONE MARITIME PLAZA, FIFTH FLOOR, TOLEDO, OH 43604
MRN: 22469 MFN: 445 (4 Page(s))

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

DISPLAY OSG

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2011 ACS on STN
OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)
UPOS.G Date last citing reference entered STN: 17 Jun 2011
OS.G CAPLUS 2011:720785; 2011:145582; 2010:1528889; 2010:1345624; 2010:564089; 2010:305677; 2009:1367821; 2009:425398; 2009:233307

DISPLAY IPC.TAB

PI WO 2007081680

Table with 9 columns: IPCI CODE, VERSION, POS, INV, LEVEL, CC ASSIGNMENT, DATE, STAT. Rows include A61N0001-30, A61K0038-00, C12Q0001-58.

Table with 9 columns: IPCR CODE, VERSION, POS, INV, LEVEL, CC ASSIGNMENT, DATE, STAT. Row includes A61N0001-30.

PI AU 2007205257

Table with 9 columns: IPCI CODE, VERSION, POS, INV, LEVEL, CC ASSIGNMENT, DATE, STAT. Rows include A61K0038-00, C12Q0001-58.

Table with 9 columns: IPCR CODE, VERSION, POS, INV, LEVEL, CC ASSIGNMENT, DATE, STAT. Rows include A61K0038-00, C12Q0001-58.

PI CA 2635616

• • •

CAplus/HCAplus/ZCAplus**DISPLAY ALL (PRE-1907 JOURNAL RECORD)**

ANSWER 1 CAPLUS COPYRIGHT 2011 ACS on STN

AN 1906:419 CAPLUS

DN 0:419

TI CIII. - A new synthesis of phloroglucinol

AU Jerdan, David Smiles

CS University Chemical Laboratory, Heidelberg, Germany

SO Journal of the Chemical Society, Transactions (1897) 1106-1114

CODEN: JCHTA3

DT Journal

LA English

CC 10 (Organic Chemistry)

OS CASREACT 0:419

AB Recent researches in the terpene series, and especially investigations into the nature of camphor, have led to the development of various formulae to represent the constitution of the latter. Especially prominent within the last few years have been the formulae proposed by Tiemann and others, in which camphor is represented as containing two

• • •

IT Charcoal, bone

Crystallization

Etherification

Fractionation

Hydrazones

Hydrolysis

Lactones

Wood, pine

(new synthesis of phloroglucinol)

IT 64-17-5, Ethyl alcohol 64-19-7, Acetic acid 67-56-1, Methyl alcohol 67-66-3, Chloroform 71-43-2, Benzene 76-22-2, Camphor 100-63-0, Phenylhydrazine 105-50-0, Ethyl acetonedicarboxylate 106-93-4, Ethylene dibromide 107-07-3, Ethylene chlorhydrin 108-73-6, Phloroglucinol 124-38-9, Carbon dioxide 141-82-2, Malonic acid 497-19-8, Sodium carbonate 513-77-9, Barium carbonate 7440-23-5, Sodium 7647-01-0, Hydrogen chloride 7664-93-9, Sulfuric acid 7705-08-0, Ferric chloride 7726-95-6, Bromine 7783-89-3, Silver bromate 8002-05-9, Petroleum 8032-32-4, Ligroin 17194-00-2, Barium hydroxide 129874-08-4, Terpene

(new synthesis of phloroglucinol)

EXPAND in the /IPC Thesaurus**=> E H01J0001-304/IPC**

E#	FREQUENCY	AT	TERM
--	-----	--	----
E1	368	2	H01J0001-28/IPC
E2	4063	6	H01J0001-30/IPC
E3	3400	2 -->	H01J0001-304/IPC
E4	1		H01J0001-307/IPC
E5	157	2	H01J0001-308/IPC
E6	461	2	H01J0001-312/IPC
E7	656	2	H01J0001-316/IPC
E8	185	2	H01J0001-32/IPC
E9	375	2	H01J0001-34/IPC
E10	36	2	H01J0001-35/IPC
E11	34	6	H01J0001-36/IPC
E12	75	2	H01J0001-38/IPC

=> E E3+HIE

E13 0 BT6 H0/IPC
 E14 0 BT5 H01/IPC
 BASIC ELECTRIC ELEMENTS
 E15 109954 BT4 H01J/IPC
 ELECTRIC DISCHARGE TUBES OR DISCHARGE LAMPS (spark-gaps
 H01T; arc lamps with consumable electrodes H05B;
 particle accelerators H05H)
 E16 915 BT3 H01J0001-00/IPC
 Details of electrodes, of magnetic control means, of
 screens, or of the mounting or spacing thereof, common
 to two or more basic types of discharge tubes or lamps
 (details of electron-optical arrangements or of ion
 traps H01J0003-00)
 CORE
 VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
 E17 747 BT2 H01J0001-02/IPC
 . Main electrodes
 ADVANCED
 VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
 E18 4063 BT1 H01J0001-30/IPC
 . . Cold cathodes
 ADVANCED
 VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
 E19 3400 --> H01J0001-304/IPC
 . . . Field-emissive cathodes
 ADVANCED
 VALID FROM 20000101 TO PRESENT (IPC EDITION: 7-8)
 ***** END *****

EXPAND in the /RL Thesaurus

=> E PREP+ALL/RL

E1 5312954 --> PREP/RL
 E2 5312954 Preparation/RL
 NOTE Vol. 1 (1907) to present - Assigned to a substance in
 studies of the synthesis of the substance as a
 distinct chemical entity, formed with preparative
 intent, via a chemical, biochemical, or nuclear
 reaction. The recovery, purification, separation, or
 other intentional formation with preparative intent of
 a desired substance also receives a PREP role.
 E3 85753 NT1 BMF/RL
 E4 191042 NT1 BPN/RL
 E5 64950 NT1 BYP/RL
 E6 2945 NT1 CPN/RL
 E7 715510 NT1 IMF/RL
 E8 173903 NT1 PNU/RL
 E9 378042 NT1 PUR/RL
 E10 2537014 NT1 SPN/RL
 ***** END *****

EXPAND in the /CT Thesaurus for the CA Lexicon

=> E SUNFLOWER+ALL/CT

E1 7005 --> Sunflower/CT
 HNTE Valid heading during volumes 1-135 (1907-2001) only.
 E2 6672 NEW Helianthus annuus/CT
 ***** END *****

CAplus/HCAplus/ZCAplus

=> E AZO DYES+ALL/CT

```

E1      14093   BT3  Chemical compounds/CT
E2      57023   BT2  Organic compounds/CT
E3      5295    BT1  Azo compounds/CT
E4      30113   BT3  Materials/CT
E5      11431   BT2  Coloring materials/CT
E6      130821  BT1  Dyes/CT
E7      8887    -->  Azo dyes/CT
                        HNTE Valid heading during volume 126 (1997) to
                        present.
E8      12084   OLD  Dyes, azo/CT
E9      0       UF   Azo dye/CT
E10     0       UF   Azodye/CT
E11     0       UF   Azodyes/CT
E12     0       NT1  1-(Phenylazo)-2-naphthol/CT
E13     0       NT1  4-(Dimethylamino)azobenzene/CT
E14     0       NT1  4-Amino-4'-nitroazobenzene/CT
E15     0       NT1  4-Aminoazobenzene/CT
E16     0       NT1  Amaranth (dye)/CT
E17     0       NT1  C.I. Acid Red 14/CT
E18     0       NT1  Carmine 6B/CT
E19     0       NT1  Congo red/CT
E20     0       NT1  Disperse Red 1/CT
E21     0       NT1  Eriochrome Black T/CT
E22     0       NT1  Methyl orange/CT
E23     0       NT1  Methyl red/CT
E24     0       NT1  New Coccine/CT
E25     0       NT1  Pigment Yellow 12/CT
E26     0       NT1  Pigment Yellow 128/CT
E27     987    NT1  Reactive azo dyes/CT
E28     0       NT2  4-(2-Sulfatoethylsulfonyl)aniline/CT
E29     0       NT1  Sunset Yellow/CT
E30     0       NT1  Tartrazine/CT
E31     0       NT1  Trypan Blue/CT
E32     253    RT   Formazans/CT
E33     40140  RT   Pigments, nonbiological/CT
E34     622    RT   Stains, coloring materials/CT
E35     0       RTCS 2,5-Dimethoxyaniline/CT
E36     0       RTCS 4-Phenylazophenol/CT
***** END *****

```

EXPAND in the CA Section Thesaurus (/CC)

=> E CERAMICS+ALL/CC

E1 487771 --> CERAMICS/CC
 E2 1860 USE 17 CERAMICS, 1962 ONLY/CC
 E3 9758 USE 21 CERAMICS, 1963-1966/CC
 E4 470983 USE 57 CERAMICS, 1967 TO PRESENT/CC
 ***** END *****

=> E E4+ALL

E5 7192986 BT1 APPLIED/CC
 E6 470983 --> 57 CERAMICS, 1967 TO PRESENT/CC
 NOTE THIS SECTION INCLUDES THE PREPARATION, COMPOSITION,
 ANALYSIS, PROPERTIES, AND USES OF GLASS, CERAMICS,
 GLAZES, ENAMELS, REFRACTORIES, CLAY PRODUCTS,
 ABRASIVES, AND CARBON PRODUCTS. ORGANIC GLASSES ARE
 INCLUDED IN SECTION 37. STUDIES OF RAW MATERIALS ARE
 INCLUDED IN SECTION 53 WHEN THE INTEREST IS OF
 GEOLOGICAL SIGNIFICANCE AND ULTIMATE USE IS
 INCIDENTAL. CERMETS CONTAINING MORE THAN ONE PERCENT
 METAL ARE INCLUDED IN SECTION 56. SOME SPECIFIC USES
 AND PROPERTIES OF CERAMICS ARE COVERED IN OTHER
 SECTIONS (E.G., 63, 65, 75, AND 76).

E7 1860 OLD 17 CERAMICS, 1962 ONLY/CC
 E8 496 OLD 19 GLASS AND CERAMICS, 1908-1909/CC
 E9 4422 OLD 19 GLASS AND CERAMICS, 1911-1920/CC
 E10 1044 OLD 19 GLASS AND POTTERY, 1906-1907/CC
 E11 46601 OLD 19 GLASS, CLAY PRODUCTS, REFRACTORIES, AND ENAMELED
 METALS, 1921-1961/CC
 E12 252 OLD 20 GLASS AND CERAMICS, 1910 ONLY/CC
 E13 9758 OLD 21 CERAMICS, 1963-1966/CC
 E14 0 NT1 57-0 CERAMICS, 1972 TO PRESENT, REVIEWS/CC
 E15 0 NT1 57-1 CERAMICS, 1972 TO PRESENT, GLASS (OXIDE AND
 NONOXIDE GLASSES)/CC
 E16 0 NT1 57-2 CERAMICS, 1972-1981, CLAYS AND CLAY PRODUCTS/CC
 E17 0 NT1 57-2 CERAMICS, 1982 TO PRESENT, CERAMICS/CC
 E18 0 NT1 57-3 CERAMICS, 1972-1981, GLAZES/CC
 E19 0 NT1 57-3 CERAMICS, 1982 TO PRESENT, PORCELAIN/CC
 E20 0 NT1 57-4 CERAMICS, 1972-1981, WHITEWARE/CC
 E21 0 NT1 57-4 CERAMICS, 1982 TO PRESENT, GLAZES AND GLASSY
 COATINGS/CC
 E22 0 NT1 57-5 CERAMICS, 1972-1981, REFRACTORIES/CC
 E23 0 NT1 57-5 CERAMICS, 1982 TO PRESENT, CLAYS AND CLAY
 PRODUCTS/CC
 E24 0 NT1 57-6 CERAMICS, 1972-1981, ABRASIVES/CC
 E25 0 NT1 57-6 CERAMICS, 1982 TO PRESENT, REFRACTORIES/CC
 E26 0 NT1 57-7 CERAMICS, 1972-1981, OTHER/CC
 E27 0 NT1 57-7 CERAMICS, 1982 TO PRESENT, ABRASIVES/CC
 E28 0 NT1 57-8 CERAMICS, 1982 TO PRESENT, CARBON PRODUCTS/CC
 E29 0 NT1 57-9 CERAMICS, 1982 TO PRESENT, OTHER/CC
 ***** END *****

CAplus/HCAplus/ZCAplus**EXPAND in the Company Name (/CO) Thesaurus Search Aid**=> **E DOW CHEMICAL+NAME/CO**

E1 16121 NAME DOW CHEMICAL CO/CO
 E2 110 --> DOW CHEMICAL/CO
 ***** END *****

=> **E E1+ALL**

E3 0 CNUM CAS1000235/CO
 E4 16121 --> DOW CHEMICAL CO/CO
 NOTES 1886: Joy Morton & Co. established
 1897: Dow Chemical Co. incorporated
 1898: Firma Johann Haltermann founded
 1900: Midland Chemical Co. merged into Dow Chemical Co.
 1907: Rohm & Haas Co. founded
 1910: Joy Morton & Co. renamed Morton Salt Co.
 1917: Union Carbide & Carbon Corp. incorporated
 1920: Carbide and Carbon Chemicals Corp. established
 1933: Ethyl Dow Co. formed
 1940: Carlisle Chemical Co. founded
 1942: Dow Chemical of Canada organized
 1955: Carlisle Chemical Co. acquired Advance Solvents
 & Chemical Co.
 1957: Shipley Co. founded
 1957: Union Carbide & Carbon Corp. renamed Union
 Carbide Corp.
 1970: Rodel Inc. established
 1980: Carlisle Chemical Co. renamed Carstab Corp.
 1989: DowElanco formed
 1989: Morton International, Inc. acquired Carstab Corp.
 1992: Rohm & Haas Co. acquired Shipley Co.
 1995: Union Carbide Corp. acquired Shell Polypropylene
 Company
 1997: ChiroTech Technology Ltd. established
 1997: Dow Chemical Co. acquired full ownership of Dow
 Mitsubishi Chemical Ltd.
 1998: Dow Chemical Co. acquired Hampshire Chemical
 Corp.
 1998: Dow Chemical Co. acquired Mycogen Corp.
 1998: Dow Chemical Co. acquired Sentrrachem Ltd.
 integrated
 1999: Dow Chemical Co. acquired Angus Chemical Company
 1999: Rohm & Haas Co. acquired LeaRonal, Inc.
 1999: Rohm & Haas Co. acquired Morton International,
 Inc.
 2001: Dow-Reichhold Specialty Latex LLC formed
 2001: Dow Chemical Co. acquired ChiroTech Technology
 Ltd.
 2001: Dow Chemical Co. acquired Haltermann AG
 2001: Dow Chemical Co. acquired Michael Cotts Chemicals
 2001: Dow Chemical Co. acquired Union Carbide Corp.
 2004: Shipley Co. and Rodel Inc. merged to form Rohm &
 Haas Electronic Materials
 2006: Dow Chemical Co. acquired Zhejiang Omex
 Environmental Engineering Ltd
 2007: Dow Chemical Co. acquired Wolff Walsrode AG
 2008: Dow-Reichhold Specialty Latex LLC dissolved
 2009: Dow Chemical Co. acquired Rohm & Haas
 E5 2 RT1 ADMIRAL EQUIP CO/CO
 E6 40 RT1 ADVANCE SOLVENTS CHEMICAL CORP/CO
 E7 32 RT1 AGRIGENET ADV SCI CO/CO
 E8 33 RT1 AGRIGENET CORP/CO
 E9 62 RT1 AGRIGENETICS INC/CO

EXPAND in the Company Name (/CO) Thesaurus Search Aid (cont'd)

E10 14 RT1 AGRIGENETICS RESEARCH ASSOCIATES LTD/CO
 E11 18 RT1 AMERCHOL CORP/CO
 E12 20 RT1 AMERCHOL CORPORATION/CO
 E13 9 RT1 ANGUS CHEM CO/CO
 E14 35 RT1 ANGUS CHEMICAL CO/CO
 E15 46 RT1 ANGUS CHEMICAL COMPANY/CO
 E16 13 RT1 ANGUS CHEMIE GMBH/CO
 E17 10 RT1 AWD TECHNOL INC/CO
 ● ● ●
 E363 22 RT1 WOLFF WALSRODE AKTIENGESELLSCHAFT/CO
 E364 1 RT1 WOLFF WALSRODE GMBH CO KG/CO
 E365 11 RT1 ZHEJIANG OMEX ENVIRONMENTAL ENGINEERING CO LTD/CO
 E366 4 RT1 ZHEJIANG OMEX ENVIRONMENTAL ENGINEERING LIMITED/CO
 E367 14 RT1 ZHEJIANG OMEX ENVIRONMENTAL ENGINEERING LTD/CO
 E368 163 JV1 NITTA HAAS INC/CO
 NOTES 1983: Rodel Inc. and Nitta Corp. formed
 joint venture, Rodel Nitta Co
 2004: Rodel Nitta Co. renamed Nitta Haas Inc.
 NOTES 1983: Rodel Inc. and Nitta Corp. formed
 joint venture, Rodel Nitta Co
 2004: Rodel Nitta Co. renamed Nitta Haas Inc.
 E369 13 JV2 NITTA HAAS INCORPORATED/CO
 E370 45 JV2 RODEL NITTA CO/CO
 ***** END *****

In North America

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 Columbus, Ohio 43210-0012 U.S.A.

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