

## DCR (Derwent Chemistry Resource)

<b>Subject Coverage</b>	<ul style="list-style-type: none"> <li>Organic and inorganic chemical compounds</li> <li>Basic compounds, salts and mixtures as well as oligomers with less than 9 repeating groups, enzymes, proteins, chemically modified polysaccharides and standard polymers</li> </ul>
<b>File Type</b>	Structure
<b>Features</b>	<p><a href="#">Alerts (SDIs)</a> Monthly, weekly, or with each update (2 updates per week) (every update is the default). In addition, SMARTracker, an automatic crossfile current awareness search, (SDI XFILE) using a DCR search profile in WPINDEX, WPIX and WPIDS may be run every update, weekly or biweekly (every update is the default).</p> <p>CAS Registry Number® Identifiers <input type="checkbox"/> <a href="#">SLART</a> <input checked="" type="checkbox"/></p> <p>Keep &amp; Share <input type="checkbox"/> Structures <input checked="" type="checkbox"/></p>
<b>Record Content</b>	<ul style="list-style-type: none"> <li>Chemical compounds from Derwent World Patents Index (DWPI) documents</li> <li>DCR numbers - unique identifiers for specific chemical compounds and link to corresponding DWPI database records</li> <li>Systematic chemical names, commonly used chemical names and synonym names</li> <li>Molecular formulas</li> <li>Structure diagrams</li> <li>Specific structure identifiers</li> <li>Substance descriptors</li> <li>Controlled terms</li> </ul>
<b>File Size</b>	More than 5.2 million specific chemical compounds (02/2024)
<b>Coverage</b>	<ul style="list-style-type: none"> <li>1999-present</li> <li>Partial coverage 1981-present: Commonly used and significant compounds</li> <li>Chemical structure diagrams 1992-present</li> </ul>
<b>Updates</b>	Updated twice a week with about 3,900 new chemical compounds
<b>Language</b>	English
<b>Database Producer</b>	Clarivate Friars House, 160 Blackfriars Rd. London SE1 8EZ United Kingdom  Copyright Holder: Clarivate
<b>Sources</b>	Claims and examples of patents indexed in the Derwent World Patents Index (DWPI) and classified in Chemical Patents Index (CPI) Sections B (Pharmaceuticals), C (Agrochemicals) and/or E (General Chemicals)

**User Aids**      [Enhanced and restructured DWPI and DCR: What you need to know as  
\\_DCR user](#)  
Online Helps (HELP DIRECTORY lists all help messages available)  
STNGUIDE

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**Cluster**            STRUCTURE  
  
STN Database Cluster Information:  
<https://www.cas.org/support/training/stn/database-clusters>

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**Related  
Databases**        WPINDEX, WPIDS, WPIX

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## Search and Display Fields

Fields that allow left truncation are indicated by an asterisk (\*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single terms from CN, CMT, MF and SCT)	None (or /BI)	S ?PHENYLETHER? S UBIQUINONE/CMT S C19H19FN2O2S S ACETYLCHOLINE-RECEPTOR	CMT, CN.P, CN.S, MF, SCT.DA, SCT.MA, SY
Accession Number (DCR Number)	/AN	S DCR-5303196/AN	AN
Chemical Name (CN.P, CN.S, SY)	/CN	S MANDELIC ACID/CN	CN.P,CN.S,SY
Chemical Name Segment * (from CN)	/CNS	S DISULFONYL DIAZIDE/CNS	CN.P,CN.S,SY
Chemical Name, Preferred	/CN.P	S D-GLUCOSE-6-PHOSPHATE/CN.P	CN.P
Chemical Name, Synonym	/SY	S FALUBIN/SY	SY
Chemical Name, Systematic	/CN.S	S DECANE-1,10-DISULFONYL DIAZIDE/CN.S	CN.S
Comment	/CMT	S FIBROBLAST#/CMT	CMT
Component Molecular Formula	/CMF (or /FRAGMF)	S C H3 F6 P/CMF	SMF
Component Molecular Formula, Count	/CMF.CNT	S 6/CMF.CNT	SMF
Controlled Term, Substance (SCT.DA, SCT.MA)	/SCT (/CT)	S MAO-INHIBITOR/SCT	SCT.DA, SCT.MA
Controlled Term, Substance, Drug Activity	/SCT.DA (or /CT.DA)	S MAP-KINASE-INH?/SCT.DA	SCT.DA
Controlled Term, Substance, Mechanism of Action	/SCT.MA (or /CT.MA)	S ADRENALINE/SCT.MA	SCT.MA
Derwent Compound Number, Substance (2)	/SDCN	S R20123/SDCN	SDCN
Derwent Drug Registry Name	/DDRN	S 2-184/DDRN	DDRN
Derwent Registry Number, Substance (2)	/SDRN	S 1029/SDRN	SDRN
Element Count (1)	/ELC	S (S AND O AND C AND H)/ELS AND 4/ELC	MF
Element Count Substance (1)	/ELC.SUB	S (S AND C AND H)/ELS AND 4/ELC.SUB	MF
Element Symbol	/ELS	S FE/ELS	MF
Element Symbol, Count (1)	/ELS.CNT	S O/ELS(S)7/ELS.CNT	MF
Entry Date, Chemistry Resource (1)	/ED (or /EDCR)	S 20210323/ED	ED
Field Availability	/FA	S DDRN/FA	Not displayed
Molecular Formula	/MF	S H CL2 N/MF	MF
Molecular Weight (1)	/MW	S 17-21/MW	MW
Number of Components (1)	/NC	S 9-11/NC	SMF
Number of Components, Total (1)	/NC.TOT	S 4/NC.TOT AND L11	SMF
Periodic Group	/PG	S A2/PG	Not displayed
Ring Index Number, Substance (2)	/SRIN	S 11895/SRIN	SRIN
Standardized Molecular Formula	/SMF	S "B *1; SI *1; TOTAL *2; TYPE *2"/SMF	SMF
Structured DCR Number	/DCSE	S 70-0-0-0/DCSE	DCSE
Substance Descriptor	/SD (or /CC)	S HALOCARBONS/SD	SD
Substructure Terms	/SS	S PHOSPHONIC-ACID/SS	SS
Update Date, DCR (1,3)	/UP (or /UPCR)	S JAN 2000/UP	UP
Update Date, DWPI Cross Reference (1,4)	/UPWX	S 19990719/UPWX	UPWX

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

(2) Cross reference to indexing in bibliographic records. Select data from SDCN or SDRN or SRIN and search in /DCN resp. /DRN, resp. /RIN to retrieve bibliographic records.

(3) UPCR is created when existing records are updated or when new compounds enter the Chemistry Resource Segment.

(4) UPWX is created when DCR compounds are cited in bibliographic records. UPWX may be used in automatic current awareness searches (SDIs) in the Chemistry Resource Segment.

## Structure Searching

Terms	Search Examples
L-numbers of structures built using the STRUCTURE editor in STNext L-numbers of structures built using the STRUCTURE command (Boolean logic allowed between L-numbers) L-numbers of screen sets created using the SCREEN command (Boolean logic allowed between the L-numbers) L-numbers of structures built using the STRUCTURE command combined with L-numbers of screen sets created using the SCREEN command (Boolean logic allowed between the L-numbers)	SEARCH L1 FAM SEA L1 AND L2 SSS  S L3 OR L4 SSS  S L1 AND L2 NOT L3

## Types of Structure Searching

Type	Definition	Search Code	Search Examples
Substructure (default)	Search for substances which match the query. Substitution is allowed at all open positions. Additional components may be retrieved.	SSS	SEARCH L1 SSS S L2 OR L3 SSS S L7 SSS
Closed Substructure	Search for substances which match the query exactly. Substitution is allowed at positions by assigning non-hydrogen attachments. Right click on a node or group of nodes and use the Non-Hydrogen Count tab in the STNext structure drawing tool. Additional components may be retrieved.	CSS	SEARCH L1 CSS S L2 NOT L3 CSS S L4 OR L5 CSS
Exact Family	Search for substances which match the query exactly. Search for substances which match the query exactly. Additional components may be retrieved.	EXA FAM	S L5 EXA FUL S L6 FAM

## Scopes of Structure Searching

Scope	Definition	Search Code	Search Examples
Sample (default)	Search a fixed 10% of the file (a maximum of 50 records displayed)	SAM	S L6 SSS SAM
Full	Search 100% of the file	FUL	S L5 OR L8 SSS
Subset Sample	Search a fixed sample of an answer set created by a search in DCR	SUB SAM	S L7 SSS SUB=L5 SAM
Subset Full	Search 100% of an answer set created by a search in DCR	SUB FUL	S L7 SSS SUB=L5 FUL

## 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. The fields are displayed or printed in the order requested.

Hit term highlighting is available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AN CMT CN (1) CN.P (1) CN.S (1) DCSE DDRN ED (EDCR) MF MW SCT (CT) SD (CC) SDCN SDRN SMF SRIN SS STR SY (1) UP (UPCR) UPWX	Accession Number (DCR Number) Comment Chemical Name (includes CN.P,CN.S and SY) Chemical Name, Preferred Chemical Name, Systematic Structured DCR Number Derwent Drug Registry Name Entry Date, Chemistry Resource Molecular Formula Molecular Weight Controlled Term, Substance (includes SCT.DA and SCT.MA) Substance Descriptor Derwent Compound Number, Substance Derwent Registry Number, Substance Standardized Molecular Formula Ring Index Number, Substance Substructure Terms Chemical Structure Display Chemical Name, Synonym Update Date, DCR Update Date, DWPI Cross Reference	D AN D CMT D CN D CN.P D CN.S 1-5 D DCSE D DDRN L1 1-2 D ED D MF D MW D SCT D SD D SDCN D SDRN D SMF D SRIN 1-10 D SS D STR D SY D UP D UPWX
ALL (FULL) IALL MAX IMAX STD (IDE) ISTD SCAN (2) SAMPLE (SAM)	AN, DCSE, CN.P, CN.S, SY, STR, CMT, MF, SMF, MW, SRIN, SDCN, SDRN, SD, ED, UP, UPWX ALL, indented with text labels AN, DCSE, CN.P, CN.S, SY, STR, CMT, MF, SMF, MW, SRIN, SDCN, SDRN, DDRN, SD, SCT.DA, SCT.MA, SS, ED, UP, UPWX MAX, indented with text labels AN, DCSE, CN.P, CN.S, SY, STR, CMT, MF, ED, UP, UPWX (STD is the default) STD, indented with text labels CN.S, MF, STR (random display without answer number) CN.S, MF, STR	D ALL D IALL D MAX D IMAX D STD 1-4 D ISTD D SCAN D SAM
HIT KWIC OCC	Hit term(s) and field(s) Up to 50 words before and after hit term(s) (KeyWord-In-Context) Number of occurrences of hit term(s) and field(s) in which they occur	D HIT D KWIC D OCC

(1) All Chemical Names, .Preferred, Systematic and Synonym, are displayed with the CN display code.

(2) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

## 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
Accession Number (DCR number)	AN	Y	Y
Chemical Name	CN	Y (2)	N
Chemical Name, Preferred	CN.P	Y	N
Chemical Name, Synonym	SY	Y	N
Chemical Name, Systematic	CN.S	Y	N
Comment	CMT	Y	N
Controlled Term, Substance	SCT	Y (3)	N
Derwent Compound Number, Substance	SDCN	Y	Y
Derwent Drug Registry Name	DDRN	Y	N
Derwent Registry Number, Substance	SDRN	Y	Y
Entry Date, Chemistry Resource	EDCR (ED)	Y	Y
Molecular Weight	MW	Y	Y
Number of Components	NC	N	Y
Ring Index Number, Substance	SRIN	Y	N
Standardized Molecular Formula	SMF	Y	N
Structured DCR Number	DCSE	Y	Y
Substance Descriptor	SD	Y	N
Update Date, DCR	UPCR (UP)	Y	Y
Update Date, DWPI Cross Reference	UPWX	Y	Y

(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 CN.

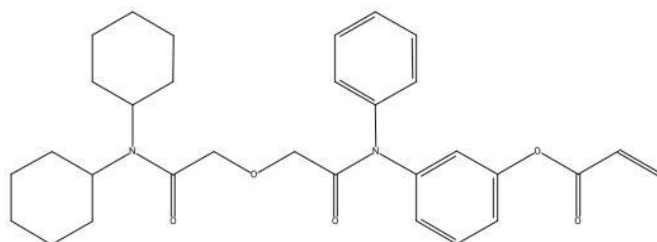
(2) Selects or analyzes CN.S, CN.P and SY with /CN appended to the terms created by SELECT.

(3) Selects or analyzes SCT.DA and SCT.MA with /SCT appended to the terms created by SELECT.

## Sample Records

### DISPLAY ALL

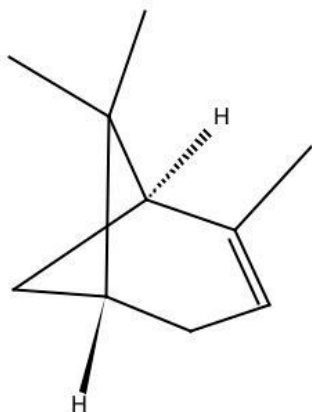
L8 ANSWER 1 OF 1 DCR COPYRIGHT 2024 CLARIVATE on STN.  
 AN DCR-1000003 DCR  
 DCSE 1000003-0-0-0  
 CN.S Acrylic acid 3-({[(dicyclohexylcarbamoyl)-methoxy]-acetyl}-phenyl-amino)-  
 phenyl ester  
 STR



MF C31 H38 N2 O5  
 SMF C31 H38 N2 O5 \*1; TOTAL \*1; TYPE \*1  
 MW 518.6589  
 SDCN RAG9YE  
 SD UNSATURATED FATTY ACIDS  
 ED Entered STN: 24 Jan 2005  
 Last updated on STN: 24 Jan 2005  
 Update DWPI Cross Ref.: 24 Jan 2005

### DISPLAY IMAX

L11 ANSWER 1 OF 1 DCR COPYRIGHT 2024 CLARIVATE on STN.  
 ACCESSION NUMBER: DCR-4436 DCR  
 STRUCTURED DCR NO.: 4436-0-0-0  
 PREF. CHEMICAL NAME: ALPHA-PINENE  
 SYSTEMATIC NAME: 2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene  
 SYNONYMS: ALPHA PINEN; ALPHA-PINEN; ALPHA-PINENE; PINENE,  
 ALPHA-; PINENE,ALPHA-; PINENE-ALPHA STR



**DCR**

COMMENT: Unspecified stereochemistry  
 MOLECULAR FORMULA: C10 H16  
 STANDARD MOL. FORMULA: C10 H16 \*1; TOTAL \*1; TYPE \*1  
 MOLECULAR WEIGHT: 136.2364  
 RING INDEX NUMBER: 00832  
 DERWENT COMPOUND NO.: R00477  
 DERWENT REGISTRY NO.: 0477  
 DERWENT DRUG REG. NAME: PINENEALP  
 SUBSTANCE DESCRIPTOR: TERPENES  
 SCT, DRUG ACTIVITY: ACETYLCHOLINESTERASE-INHIBITORS; ANALGESICS;  
 ANTICHOLINESTERASES; CHOLINESTERASE-INHIBITORS;  
 FUNGICIDES  
 SCT, MECHANISM OF ACTION: ACETYLCHOLINESTERASE-INHIBITOR; ANTICHOLINESTERASE;  
 CHOLINESTERASE-INHIBITOR  
 SUBSTRUCTURE TERM: BRIDGE-STRUCT.; CYCLOBUTANE; CYCLOHEXANE; OLEFIN;  
 TERPENE  
 ENTRY DATE: Entered STN: 3 May 1999  
 Last updated on STN: 12 Aug 2022  
 Update DWPI Cross Ref.: 22 Jan 2024

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