

## DWPIM (Derwent Markush Resource)

<b>Subject Coverage</b>	<ul style="list-style-type: none"> <li>Organic and organometallic compounds</li> <li>Inorganic compounds, polymers, peptides and partially defined structures</li> </ul>		
<b>File Type</b>	Markush Structures		
<b>Features</b>	<a href="#">Alerts (SDIs)</a> Monthly, weekly, or with each update (2 updates per week) (every update is the default)		
	CAS Registry Number® Identifiers	<input type="checkbox"/>	Page Images <input type="checkbox"/>
	Keep & Share	<input type="checkbox"/>	SLART <input type="checkbox"/>
	Learning Database	<input type="checkbox"/>	Structures <input checked="" type="checkbox"/>
<b>Record Content</b>	Markush structures from approx. 1.1 million Derwent World Patents Index (DWPI) documents		
<b>File Size</b>	More than 2.6 million records (02/2024)		
<b>Coverage</b>	1961 to date		
<b>Updates</b>	104 times a year		
<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>	For patents included in Derwent World Patents Index, Derwent Markush Resource includes indexed structures from claims, examples, disclosure		
<b>User Aids</b>	<ul style="list-style-type: none"> <li><a href="#">Derwent Markush Resource on STN – Reference Manual</a></li> <li>Online Helps (HELP DIRECTORY lists all help messages available)</li> <li>STNGUIDE</li> </ul>		
<b>Cluster</b>	DWPIM is not available in any cluster		
<b>Related Databases</b>	WPIDS/WPINDEX/WPIX		

## Search and Display Field Codes

Search Field Name	Search Code	Search Examples	Display Codes
Accession Number Entry Date Markush Descriptor	/AN /ED /MDE	S 2091-38502/AN S 20151029/ED S S/MDE S SINGLE SPECIFIC STRUCTURE/MDE	AN ED MDE
Patent Number/Kind Code Substance Descriptor (default)	/PNK /SDM	S US10000377 B1/PNK S N/SDM S NATURAL POLYMERS/SDM	PNK SDM
Update Date	/UP	S UP=NOV 2017	UP

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

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

Format	Content	Examples
AN ED MDE (1) PNK (1) SDM STR UP	Accession Number Entry Date Markush Descriptor Patent Number/Kind Code Substance Descriptor Structure Update Date	D AN D ED D MDE D PNK D SDM D STR D UP
ALL (FULL) IALL (IFULL) ASB (STD, IDE) IASB (ISTD) BRIEF  SCAN (2) TRIAL (TRI, SAMPLE, SAM)	AN, SDM, STR, ED, UP (ALL is default) (complete Markush structure) ALL, indented with text labels (complete Markush structure) Assembled hit structure including parts of the MARKUSH structure that match the query structure ASB, indented with text labels  Unassembled hit Markush base structure with complete hit G-groups related to the query SDM, ASB, ED, UP (random display, no answer numbers) SDM, ASB, ED, UP	D ALL  D IALL  D ASB  D IASB  D BRIEF  D SCAN D TRIAL
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) Custom display only.

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

## Structure Searching

Terms	Search Examples
L-numbers of structures built using the STRUCTURE editor in STNext	SEARCH L1 SSS SAM S L1 SSS FULL

## 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

## Scopes of Structure Searching

Scope	Definition	Search Code	Search Examples
Full Sample (default)	Search 100% of the file Search a fixed 10% of the file (a maximum of 50 records displayed)	FUL SAM	S L5 OR L8 SSS S L6 SSS SAM

## Limiting Search Codes

Only an L-number for an answer set created in DWPIIM may be limited.

Search Field Name	Search Code	Search Examples	Display Codes
Answers completely iterated Answers incompletely iterated	/COM /INC	S L4/COM S L4/INC	Not displayed Not displayed

## 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	AN	Y (default)	Y
Entry Date	ED	Y	Y
Markush Descriptor	DE	Y	Y
Patent Number/Kind Code	PNK	Y	N
Substance Descriptor	SDM	Y	Y
Update Date	UP	Y	Y

## Crossover from DWPIM to WPIX, WPIDS, or WPINDEX

The crossover from DWPIM results to WPIX, WPIDS or WPINDEX is established by performing a search of the respective DWPIM L-number in WPIX, respectively WPIDS or WPINDEX.

There is a limit of 200,000 answers that can be crossed over from DWPIM to DWPI (WPINDEX, WPIDS, WPIX) in a single crossover L-number.

=> FIL DWPIM  
=> S L-number search type (e.g., L1 sss ful)  
=> FIL WPIX  
=> s L-number  
=> d L-number

The assembled display is the default display in WPIX. The commands for the assembled, brief and full hit structure in WPIX are as follows:

=> d L-number ahitstr  
=> d L-number bhitstr  
=> d L-number fhitr

## Crossover of Compounds from WPIX, WPIDS, or WPINDEX to DWPIM

Use the Transfer command to crossover Markush compound numbers from WPIX, WPIDS, or WPINDEX to Accession Numbers for Markush compounds in DWPIM. It is important to note that a reassignment of the compound suffix MCN to AN is required.

The workflow is described in the following:

Fil DWPIM

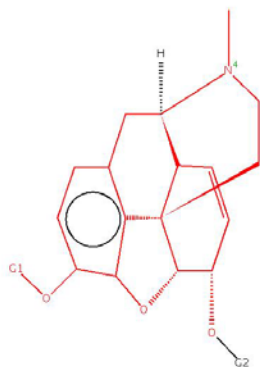
Tra L-number WPIX record [range] MCN /AN

Example: Tra L1 1-3 MCN /AN

**SAMPLE Record****DISPLAY ALL**

AN 2091-38502 DWPIM

SDM B: Pharmaceuticals, Agrochemicals; V: Simple organic compounds; Y: Mixtures



G-GROUP 1

H C XX

G-GROUP 2

H C XX

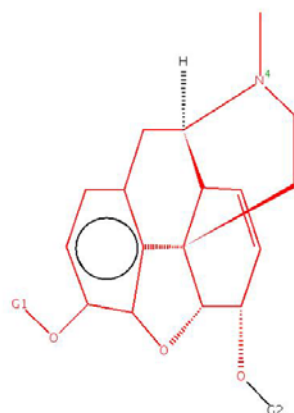
ED 20180409

UP 20180409

**DISPLAY BRIEF**

AN 2091-38502 DWPIM

SDM B: Pharmaceuticals, Agrochemicals; V: Simple organic compounds; Y: Mixtures



G-GROUP 1

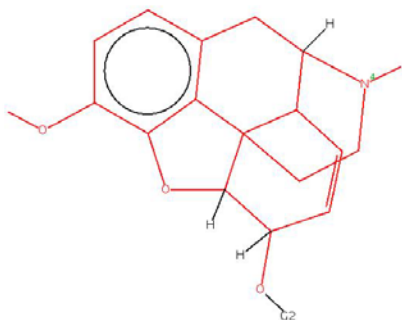
H C XX

ED 20180409

UP 20180409

## DISPLAY ASB

AN 2091-38502 DWPIIM  
SDM B: Pharmaceuticals, Agrochemicals; V: Simple organic compounds; Y:  
Mixtures



ED 20180409  
UP 20180409

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