DWPIM (Derwent Markush Resource)

Subject Coverage
- Organic and organometallic compounds
- Inorganic compounds, polymers, peptides and partially defined structures

File Type
Markush Structures

Access
The file is only available on STNext

Features

Alerts (SDIs): Monthly, weekly or with each update (2 updates per week) (every update is the default)

CAS Registry Number® Identifiers	☐	Page Images	☐	STN® AnaVist™	☐
Keep & Share	☐	SLART	☐	STN Easy®	☐
Learning Database	☐	Structures	☑		

Record Content
- Markush structures from approx. 890,000 Derwent World Patents Index (DWPI) documents

File Size
- More than 2.3 million records (08/2020)

Coverage
1961 to date

Updates
Twice-weekly

Language
English

Database Producer
Clarivate Analytics (UK) Limited
Friars House, 160 Blackfriars Rd.
London SE1 8EZ
United Kingdom

Sources
For patents included in Derwent World Patents Index, DWPI Markush includes indexed structures from claims, examples, disclosure

User Aids
- Derwent Markush Resource on STN – Reference Manual
- Building and Searching Structures on STN
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

Clusters
File currently not available in clusters.

Pricing
Enter HELP COST at an arrow prompt.

Related Databases
WPIDS/WPINDEX/WPIX

Search and Display Field Codes

Search Field Name	Search Code	Search Examples	Display Codes
Accession Number	/AN	S 9925-IWL05/AN	AN
Entry Date	/ED	S 20151029/ED	ED
Markush Descriptor	/MDE	S S/MDE S SINGLE SPECIFIC STRUCTURE/MDE	MDE
Substance Descriptor (default)	/SDM	S N/SDM S NATURAL POLYMERS/SDM	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. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AN	Accession Number	D AN
ED	Entry Date	D ED
MDE **(1)**	Markush Descriptor	D MDE
PNK **(1)**	Patent Number/Kind Code	D PNK
SDM	Substance Descriptor	D SDM
ALL (FULL)	AN, SDM, STR, ED, UP (ASB is default) (complete Markush structure)	D ALL
IALL (IFULL)	ALL, indented with text labels (complete Markush structure)	D IALL
ASB (STD, IDE)	Assembled hit structure including parts of the MARKUSH structure that match the query structure	D ASB
IASB (ISTD)	ASB, indented with text labels	D IASB
BRIEF	ASB plus definitions for unmatched G-groups that are visible in the assembled display	D BRIEF
SCAN	SDM, ASB, ED, UP (random display, no answer numbers)	D SCAN
TRIAL (TRI, SAMPLE, SAM)	SDM, ASB, ED, UP	D TRIAL
HIT	Hit term(s) and field(s)	D HIT
KWIC	Up to 50 words before and after hit term(s) (KeyWord-In-Context)	D KWIC
OCC	Number of occurrences of hit term(s) and field(s) in which they occur	D OCC

(1) Custom display only.

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 opened by CONNECT. 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	Search 100% of the file	FUL	S L5 OR L8 SSS
Sample (default)	Search a fixed 10% of the file (a maximum of 50 records displayed)	SAM	S L6 SSS SAM

Limiting Search Codes

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

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

=> 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* fhitstr

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

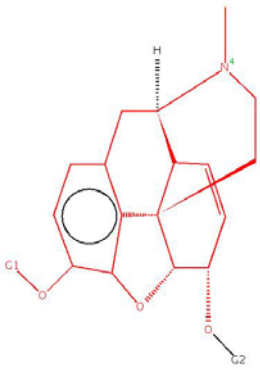
Markush compounds from WPIX, WPIDS or WPINDEX records can be extracted and displayed in DWPIM by applying the transfer command. It is important to note that this step requires a reassignment of compound suffix MCN to AN.
The workflow is described in the following:

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

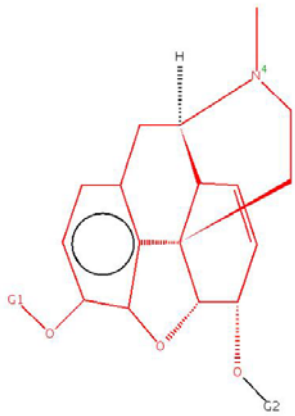
G-GROUP 2

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

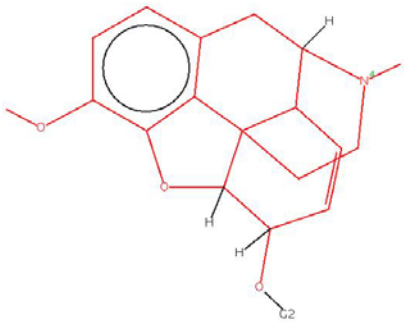
H C XX

ED 20180409
UP 20180409

6
DWPIM

DISPLAY ASB

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



ED 20180409
UP 20180409