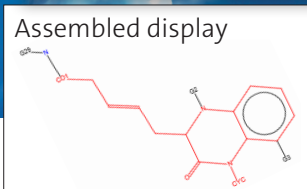
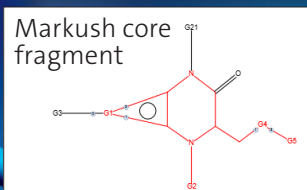
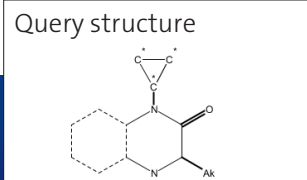


# DERWENT MARKUSH RESOURCE on STN®



Derwent Markush Resource (file name DWPIIM) is a comprehensive value-added database covering generic chemical structures of various substance classes. The records in DWPIIM are structure based, i.e., one record contains a single Markush structure with all variations linked to a corresponding record in DWPI via a Markush compound number. This design ensures that DWPIIM is seamlessly integrated with other related Clarivate Analytics databases (DWPI, DCR) on new STN.

## Content and Coverage

### Patent countries and data sources

- Markush indexing for ~ 800,000 DWPI records
- 33 patent-issuing authorities
- US, EP and WO coverage from 1978 onwards
- DWPI major authorities from 1987 onwards
- Complete INPI backfile (1961-1998)

### Substance classes

- ~ 2.0 million Markush structures
- Major classes include organic and organometallic compounds
- Inorganic compounds, polymers, peptides, fullerenes

## Sophisticated Search and Retrieval

- Consistent and comfortable Markush search capabilities due to preserved STN structure search conventions

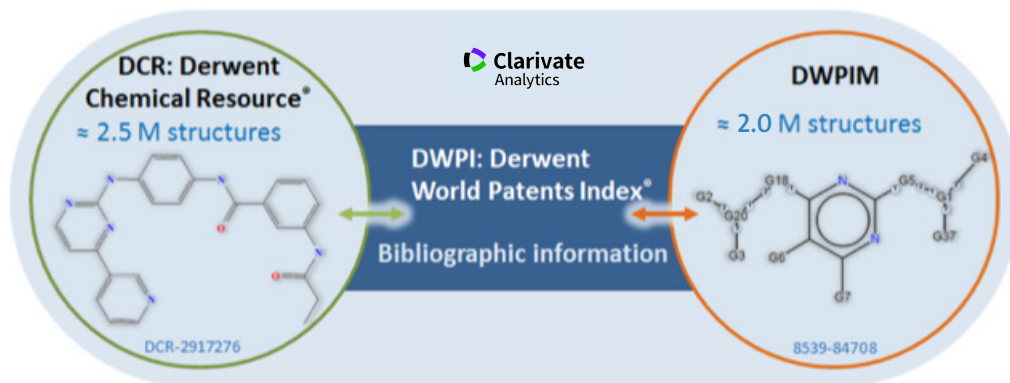
- Hierarchical Markush search concept supported by established attributes such as Match level (atom, class, any) and Element count level (limited, unlimited) impacting on search precision
- Full STN support of 22 distinct generic nodes used for Markush indexing. Provided nodes encompass key chemical groups and elements (e.g., carbo- and heterocycles, carbon chains, metals, halogens) to empower targeted search and retrieval
- Distinct node attributes (e.g., element counts, monocyclic/polycyclic) allow for further impact on search results

## Flexible Display Options

- Three distinct display formats for efficient and comprehensive hit structure evaluation:
  - Full display: all details given (all G-groups)
  - Brief display: query focused (only query-relevant G-groups)
  - Assembled display: single hit structure (query-relevant G-groups specified)
- Hit structure highlighting helps to establish relevance and speeds up results review



## DWPIM integration to the DWPI content environment



### Ensures smart crossfile applications

- Combination of structure (DCR, DWPIM) and text searches (DWPI)
- Integrated display in DWPI, including structures from DCR and DWPIM
- Convenient “Get references” function for all or selected records
- Narrow down result set by application of unique Markush roles (e.g., Produced, New, Claim)

### A typical DWPIM database record within DWPI

L135 COUNTS RESULTS

DWPI (165) DCR (36) DWPIM (296)

Extended Patent Family View: Full

Hit Structures

DWPIM Hits

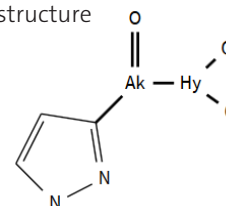
DWPIM Accession Number 1243-27002

assembled

DWPI hit structures:  
Both the Assembled view and Full view are available.

full

Query structure



- 1 Simultaneous search in both DWPI structure databases
- 2 Hit structures from DWPIM and DCR are shown at the end of the DWPI record
- 3 Hit structure highlighting in red
- 4 Selected DWPI record

#### STN Service Centers

##### In Europe

FIZ Karlsruhe  
STN Europe

helpdesk@fiz-karlsruhe.de  
www.stn-international.de

##### In North America

CAS  
STN North America

help@cas.org  
www.cas.org

##### In Japan

JAICI (Japan Association for International Chemical Information)  
STN Japan

support@jaici.or.jp (Technical Service)  
customer@jaici.or.jp (Customer Service)  
www.jaici.or.jp