### Subject Coverage
- Markush structure records for patents found in CAplus℠
- Markush structures derived from Institute National de la Propriété Industrielle (INPI) data from 1961 to 1987

### File Type
Markush structures

### Features
<table>
<thead>
<tr>
<th><strong>Alerts (SDIs)</strong></th>
<th>Every two weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS Registry Number® Identifiers</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Keep &amp; Share</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>STN® AnaVist™</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Learning Database</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Structures</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>STN Easy®</strong></td>
<td>No</td>
</tr>
</tbody>
</table>

### Record Content
Markush structures of organic or organometallic molecules are searchable. Patent reference information is displayable.

### File Size
More than 499,630 patent records (8/2018)

### Coverage
1961 to the present

### Updates
Daily

### Language
English

### Database Producer
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  
Email: help@cas.org  
Copyright Holder

### Sources
- Patents found in CAplus with the patent publication year of 1988 to the present
- English language patents from 1984-1987 (selective coverage)
- French and German patents from 1986-1987 (selective coverage)
- Japanese patents from 1987 (selective coverage)
- Russian patents published after January 10, 2000
- Korean patents from 2008 to the present
- INPI data from 1961 to 1987

### User Aids
- Support and training materials are available on the web: [www.cas.org](http://www.cas.org)
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

### Clusters
- CASLINK
- HCASLINK
- STRUCTURE [STN Database Clusters](http://www.cas.org) information (PDF).

### Related Databases
LMARPAT℠

### Pricing
Enter HELP COST at an arrow prompt.
SEARCH and DISPLAY Field Codes

There are no fields that allow left truncation.

<table>
<thead>
<tr>
<th>Search Field Name</th>
<th>Search Code</th>
<th>Search Examples</th>
<th>Display Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Index (contains single words from the textual information associated with the Markush structures)</td>
<td>None (or /BI)</td>
<td>S MESO S PHARMACEUT? (L) SALT#</td>
<td>MSTR</td>
</tr>
<tr>
<td>Accession Number</td>
<td>/AN</td>
<td>S 118:93622/AN</td>
<td>AN</td>
</tr>
<tr>
<td>CAplus Accession Number</td>
<td>/ANPL</td>
<td>S 2000:271958/ANPL</td>
<td>ANPL</td>
</tr>
<tr>
<td>Entry Date (2)</td>
<td>/ED</td>
<td>S 19990305/ED</td>
<td>Not displayed</td>
</tr>
<tr>
<td>Update Date (2)</td>
<td>/UP</td>
<td>S L1 AND UP&gt;=19990100</td>
<td>Not displayed</td>
</tr>
</tbody>
</table>

(1) Only structure-related text terms are included; terms from the CAplus Basic Index are not searchable.
(2) Numeric search field that may be searched using numeric operators or ranges.

Limiting Search Codes

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

<table>
<thead>
<tr>
<th>Search Field Name</th>
<th>Search Code</th>
<th>Search Examples</th>
<th>Display Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answers completely iterated</td>
<td>/COMPLETE</td>
<td>S L4/COM (1)</td>
<td>Not displayed</td>
</tr>
<tr>
<td>Answers incompletely iterated</td>
<td>/INCOMPLETE</td>
<td>S L4/INC (1)</td>
<td>Not displayed</td>
</tr>
</tbody>
</table>

(1) The code may be abbreviated to the first three letters.

Structure Search Terms

Novice SEARCH provides prompts to allow you to modify some query attributes, e.g., MLEVEL, before search is run.

<table>
<thead>
<tr>
<th>Term</th>
<th>Search Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-number of a structure built using the STRUCTURE command or uploaded from STN Express (1)</td>
<td>SEARCH L1 CSS FUL S L2 S L7 SUBSET=L5</td>
</tr>
</tbody>
</table>

(1) The L-number answer set from a structure search may be combined with text terms, e.g., S L6 AND SALTS.

Types of Structure Searching

Novice SEARCH provides prompts to allow you to modify some query attributes, e.g., MLEVEL, before the search is run.

<table>
<thead>
<tr>
<th>Type</th>
<th>Definition</th>
<th>Search Code</th>
<th>Search Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substructure (default) Closed Substructure</td>
<td>Search for substances that match the query. Substitution is allowed at all open positions. Search for substances that match the query exactly. Substitution is allowed at positions opened by CONNECT.</td>
<td>SSS CSS</td>
<td>SEARCH L1 SSS FUL S L2 SEARCH L1 CSS FUL SEA L4 CSS SUB=L2</td>
</tr>
</tbody>
</table>
Scopes of Structure Searches

Novice SEARCH provides prompts to allow you to modify some query attributes, e.g., MLEVEL, before the search is run.

To create an L-number answer set containing candidate structures that have passed the screening step of your structure search, enter EXTEND on the search command line or enter SET EXTEND ON or SET EXTEND ON PERM at an arrow prompt (=>). For details, enter HELP SET EXTEND at an arrow prompt.

<table>
<thead>
<tr>
<th>Scope</th>
<th>Definition</th>
<th>Search Code</th>
<th>Search Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample (default)(1)</td>
<td>Search a fixed 5% of the file</td>
<td>SAM</td>
<td>SEARCH L1 SAM SSS</td>
</tr>
<tr>
<td>Full</td>
<td>Search 100% of the file</td>
<td>FUL</td>
<td>S L5 SSS FUL</td>
</tr>
<tr>
<td>Range</td>
<td>Search a user-specified portion of the file</td>
<td>RAN</td>
<td>S L4 RAN=(V117,)</td>
</tr>
<tr>
<td>Subset Sample</td>
<td>Search a fixed sample of an answer set created by a search in MARPAT</td>
<td>SUB SAM</td>
<td>S L7 CSS SUB=L5 SAM</td>
</tr>
<tr>
<td>Subset Range</td>
<td>Search a user-specified portion of an answer set created by a search in MARPAT</td>
<td>SUB RAN</td>
<td>S L3 SUB=L2</td>
</tr>
<tr>
<td>Subset Full</td>
<td>Search 100% of an answer set created by a search in MARPAT</td>
<td>SUB FUL</td>
<td>S L8 SUB=L6 FUL</td>
</tr>
</tbody>
</table>

(1) EXTEND is not valid with SAMPLE.

DISPLAY Formats

Any combination of formats may be used to display answers. Multiple codes must be separated by spaces or commas. The fields are displayed in the order requested, e.g., D TI AU. The default Generic Group display (expanded form) has GTEXT set to ON. To use the compact form, enter SET GTEXT OFF at an arrow prompt (=>).

Hit-term highlighting is available in the AN and MSTR fields. MARHIGHLIGHT must be ON during SEARCH in order to use HIT, FHIT, FQHIT, and QHIT formats.

<table>
<thead>
<tr>
<th>Format</th>
<th>Content</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB</td>
<td>Abstract Text</td>
<td>D AB</td>
</tr>
<tr>
<td>AI (AP) (1)</td>
<td>Patent Application Information</td>
<td>D AI PI</td>
</tr>
<tr>
<td>AI.B (AP.B) (1)</td>
<td>Patent Application Information, Basic</td>
<td>D AI.B</td>
</tr>
<tr>
<td>AN</td>
<td>Accession Number</td>
<td>DISPLAY L2 1-10 AN HIT</td>
</tr>
<tr>
<td>ANPL</td>
<td>AN and CPlus Accession Number</td>
<td>D ANPL</td>
</tr>
<tr>
<td>CC (SC)</td>
<td>CA Classification Code (CA section and section cross-references)</td>
<td>D CC</td>
</tr>
<tr>
<td>CO</td>
<td>CODEN</td>
<td>D CO, D ISN</td>
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<td>Controlled Term</td>
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<td>D CYA</td>
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<tr>
<td>DN</td>
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<td>D DN</td>
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<tr>
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<td>Designated States</td>
<td>D PI DS</td>
</tr>
<tr>
<td>DS.B (2)</td>
<td>Designated States, Basic</td>
<td>D DS.B</td>
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<td>GI (3)</td>
<td>Graphic Image or Graphic Image Information</td>
<td>D GI</td>
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<tr>
<td>ICA</td>
<td>Additional or Supplementary IPC</td>
<td>D 2-10 ICA</td>
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<td>ICI</td>
<td>Index or Complementary IPC</td>
<td>D 5 8 ICI</td>
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<tr>
<td>ICM</td>
<td>Main IPC</td>
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<tr>
<td>ICS</td>
<td>Secondary IPC</td>
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<tr>
<td>IN (AU)</td>
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<td>International Standard (Document) Number</td>
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<td>D AN IT</td>
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<td>D JT, D JTA, D JTF</td>
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<tr>
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<td>Markush structure n and its related text</td>
<td>D AN MSTR (1)</td>
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<td>D NCL</td>
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<tr>
<td>Format</td>
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<td>Examples</td>
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<tr>
<td>OS</td>
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<tr>
<td>PA (CS)</td>
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<td>D PA</td>
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<td>PI (1)</td>
<td>Patent Information Table</td>
<td>D TI PI</td>
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<td>PI.B (PN.B) (1,2)</td>
<td>Patent Information, Basic</td>
<td>D PI.B</td>
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<td>D PN</td>
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<td>D PNC</td>
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<td>Patent Number/Kind Code</td>
<td>D PNK</td>
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<tr>
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<td>D PNK.B</td>
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<td>Priority Application Information</td>
<td>D AI PRAI</td>
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<td>Priority Application Information, Basic</td>
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<td>PY (2)</td>
<td>Publication Year</td>
<td>D PY</td>
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<td>Publication Year, Basic</td>
<td>D TI PY.B</td>
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<td>Cited References</td>
<td>D TI RE</td>
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<td>RETABLE (2,3)</td>
<td>Cited References Table</td>
<td>D TI AU RETABLE</td>
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<tr>
<td>RE.CNT (REC) (3)</td>
<td>Citing Document's Reference Count</td>
<td>D REC</td>
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<td>SX (2,5)</td>
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<td>D TI SX</td>
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<td>TI</td>
<td>Title of Document</td>
<td>D TI MSTR</td>
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<tr>
<td>UPP</td>
<td>Update Date Patent</td>
<td>D UPP</td>
</tr>
<tr>
<td>ABS</td>
<td>GI, AB</td>
<td>D ABS</td>
</tr>
<tr>
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<td>AN, TI, IN, PA, SO, DT, LA, NCL, CC, FAN.CNT, PI, PRAI, OS, GI, AB, ST, IT, RL, RE.CNT, RE, MSTR</td>
<td>D L2 1-7 ALL</td>
</tr>
<tr>
<td>APPS (1)</td>
<td>AI, PRAI</td>
<td>D APPS</td>
</tr>
<tr>
<td>APPS.B (1)</td>
<td>AI.B, PRAI.B</td>
<td>D APPS.B</td>
</tr>
<tr>
<td>BIB (1)</td>
<td>AN, TI, IN, PA, SO, DT, LA, FAN.CNT, PI, PRAI, OS, RE.CNT (BIB is the default)</td>
<td>D 1-3 BIB HIT</td>
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<tr>
<td>CAN</td>
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<td>D CAN</td>
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<tr>
<td>CBIB</td>
<td>AN, plus Compressed Bibliographic Data</td>
<td>DISPLAY L1 1 CBIB</td>
</tr>
<tr>
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<td>ALL, delimited for post-processing</td>
<td>D DALL</td>
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<td>MAX, delimited for post-processing</td>
<td>D MAX</td>
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<tr>
<td>FAN</td>
<td>Family Accession Number (AN, FAN.CNT, FAN)</td>
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<tr>
<td>FBIB (1)</td>
<td>BIB plus PI for other family accession numbers</td>
<td>D FBIB</td>
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<tr>
<td>IABS</td>
<td>ABS, with text labels</td>
<td>D IABS</td>
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<tr>
<td>IALL (1,4)</td>
<td>ALL, indented with text labels</td>
<td>D IALL</td>
</tr>
<tr>
<td>IBIB (1)</td>
<td>BIB, indented with text labels</td>
<td>D IBIB</td>
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<tr>
<td>IC</td>
<td>International Patent Classification, Main and Secondary</td>
<td>D IC</td>
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<tr>
<td>IDE</td>
<td>AN, MSTR</td>
<td>D IDE</td>
</tr>
<tr>
<td>IMAX (1,4)</td>
<td>MAX, indented with text labels</td>
<td>D IMAX</td>
</tr>
<tr>
<td>IND (4)</td>
<td>IPC, NCL, CC, ST, IT, RL</td>
<td>D TI IND</td>
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<tr>
<td>IPC</td>
<td>International Patent Classifications (IC (ICM, ICS), ICA, ICI)</td>
<td>D IPC</td>
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<tr>
<td>ISTD (1)</td>
<td>STD, indented with text labels</td>
<td>D ISTD</td>
</tr>
<tr>
<td>MAX (1,4)</td>
<td>ALL, plus PI for other family accession numbers</td>
<td>D MAX</td>
</tr>
<tr>
<td>OIBIB (1)</td>
<td>OBIB, Original (AN, TI, IN, PA, SO, PI, DS, AI, PRAI, DT, LA, OS)</td>
<td>D OIBIB</td>
</tr>
<tr>
<td>OIBIB (1)</td>
<td>OBIB, indented with text labels</td>
<td>D OIBIB</td>
</tr>
<tr>
<td>PATS (1)</td>
<td>SO, PI</td>
<td>D PATS</td>
</tr>
<tr>
<td>PATS.B (1)</td>
<td>SO, PI for basic patents</td>
<td>D PATS.B</td>
</tr>
<tr>
<td>SAM (4)</td>
<td>IPC, NCL, CC, SX, TI, ST, IT, and FQHIT</td>
<td>DIS SAM 1-5</td>
</tr>
<tr>
<td>SBIB (1)</td>
<td>BIB, without RE.CNT (AN, DN, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS)</td>
<td>D 1 3 SBIB</td>
</tr>
<tr>
<td>SCAN (3,4,6)</td>
<td>IPC, NCL, CC, TI, ST, IT, RL, FQHIT (random display, no answer numbers)</td>
<td>D SCAN</td>
</tr>
<tr>
<td>SIBIB (1)</td>
<td>SBIB, indented with text labels</td>
<td>D SIBIB</td>
</tr>
<tr>
<td>STD (1)</td>
<td>AN, TI, IN, PA, SO, DT, LA, FAN.CNT, PI, PRAI, NCL, OS, RE.CNT</td>
<td>D STD</td>
</tr>
</tbody>
</table>

August 2018
**DISPLAY Formats (cont'd)**

<table>
<thead>
<tr>
<th>Format</th>
<th>Content</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHT</td>
<td>The first full Markush structure that matches the query structure and (or) the fields containing hit text terms</td>
<td>D CBIB ABS FHT</td>
</tr>
<tr>
<td>FQHIT (7,8)</td>
<td>Portions of the first Markush structure that match the query structure and (or) fields containing the first query focus hit text terms</td>
<td>D FQHIT</td>
</tr>
<tr>
<td>FQHITEXG (7,9)</td>
<td>FQHIT plus definitions for unmatched G-groups that are visible in the assembled display</td>
<td>D FQHITEXG</td>
</tr>
<tr>
<td>HIT</td>
<td>The full Markush structure(s) that match the query structure and (or) the fields containing hit text terms</td>
<td>D CBIB ABS HIT</td>
</tr>
<tr>
<td>QHIT (7,8)</td>
<td>The portions of each Markush structure that match the query structure and (or) the fields containing hit text terms</td>
<td>D QHIT</td>
</tr>
<tr>
<td>QHITEXG (7,9)</td>
<td>QHIT plus definitions for unmatched G-groups that are visible in the assembled display</td>
<td>D QHITEXG</td>
</tr>
</tbody>
</table>

(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) No online display fee for this format.
(4) By default, roles are displayed as codes and text. To suppress the display of role codes and text, enter SET ROLES OFF. To display only codes, enter SET ROLES CODES.
(5) SX displays all information in the CC field, i.e., CA section and section cross-references.
(6) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.
(7) SET MPTASSEMBLY command allows you to control answer assembly formats and is set ON as a system default. To change the MARPAT display, enter SET MPTASSEMBLY BOTH or SET MPTASSEMBLY OFF. If MPTASSEMBLY is set to BOTH or ON and assembly is not possible, only the unassembled display will be shown. For more information on SET MPTASSEMBLY see HELP T13 in MARPAT.
(8) If you want to retain the original FQHIT/QHIT format, SET MPTASSEMBLY OFF.
(9) Even if MPTASSEMBLY is set to OFF, the unmatched G-group definitions available in the QHITEXG and FQHITEXG formats will only be shown with assembled displays. If MPTASSEMBLY is set to BOTH, an unassembled display will follow.

**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:

```plaintext
=> 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).

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Code</th>
<th>ANALYZE/SELECT</th>
<th>SORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract Text</td>
<td>AB</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Accession Number</td>
<td>AN</td>
<td>Y (1)</td>
<td>N</td>
</tr>
<tr>
<td>Author (Inventor)</td>
<td>AU (IN)</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>CA Classification Code (section and subsection)</td>
<td>CC (SC)</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
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2. Appends /AN to the terms created by SELECT.
3. (n) may be a single number, range, or a list of numbers separated by a space or comma.
4. Selects or analyzes cited reference accession number in CAplus and appends /AN to the terms created by SELECT.
5. Selects or analyzes cited reference accession number in MEDLINE and appends /AN to the terms created by SELECT.
6. Selects or analyzes cited reference author name and appends /RAU to the terms created by SELECT.
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Arom. hydroxythiols (e.g., 3-hydroxythiophenol) are prepd. in high yield and selectivity by oxidizing an arom. aminothiol (e.g., 3-aminothiophenol) to an aminodisulfide compd., forming a bis-diazonium salt of the aminodisulfide compd., and reacting the bis-diazonium salt with water to form an arom. hydroxyldisulfide compd., which is then reduced to the hydroxythiol.
DISPLAY IALL (GTEXT=ON) (cont'd)

INDEX TERM: Phenols, preparation
ROLE: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(thiolphenols, arom. hydroxythiols; prepn. of arom. hydroxythiols from bis-diazonium salts)

INDEX TERM: 7732-18-5, Water, reactions
ROLE: NUU (Nonbiological use, unclassified); RCT (Reactant); USES (Uses)
(prepn. of arom. hydroxythiols from bis-diazonium salts)

INDEX TERM: 137-07-5, 2-Aminothiophenol 1193-02-8, 4-Aminothiophenol 7632-00-0, Sodium nitrite 22948-02-3, 3-Aminothiophenol
ROLE: RCT (Reactant)
(prepn. of arom. hydroxythiols from bis-diazonium salts)

INDEX TERM: 40248-84-8P, 3-Hydroxythiophenol
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of arom. hydroxythiols from bis-diazonium salts)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD.

REFERENCE(S): (1) Allen; Org Synth Coll 1943, V1, P580
(2) Anon; Gazz Chim Ital 99 by Cabiddu 1969, P1095
(3) Anon; J Amer Chem Soc By Djerassi 1955, V77, P568
(4) Anon; J Chem Soc by Watson and Dutt 1922, V121, P2414
(5) Christidis; US 4948827 1990
(6) Cohen; J Org Chem 1977, V42(12) CAPLUS
(7) Ganushchak; 1992, V28(3), P531 CAPLUS
(8) Gutcho; US 2820780 1958
(9) Krauss; US 4734527 1988 CAPLUS
(10) Laufer; US 3479407 1969 CAPLUS
(11) Ungnade; Org Synth Coll 1955, V3, P130
(12) Watson; J Chem Soc 1922, V121, P2414
(13) Werner; US 2286701 1942
(14) Yiannios; J Org Chem 1963, V28, P3246

MSTR 1

H2N——G1——S——H

G1  = arylene (opt. substd.) / 4-1 5-3 / heterocycle <1-10 rings> / (specifically claimed phenylene (opt. substd. by G4))

G2 ——— G3

G2  = carbon chain (opt. substd.)
G3  = arylene (opt. substd.)
G4  = alkyl / aryl / alkyl (substd. by 1 or more aryl) / / 6 / alkoxy / NH2 (substd.)

HN——C(O)——R

Patent location: claim 3
**MARPAT**

**DISPLAY FBIB MSTR(1) (GTEXT=ON)**

AN  130:146287  MARPAT
TI  Liquid crystal composition for display device
IN  Kaneko, Masaharu; Kadowaki, Masami; Sato, Hideki
PA  Mitsubishi Chemical Corporation, Japan
CODEN: USXXAM
DT  Patent
LA  English
FAN.CNT 2

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**MSTR 1**

G1  = H / alkyl / alkoxy / alkyl (subst. by alkoxy) / halo / cyclohexyl (opt. subst. by 1 or more G3) / Ph (opt. subst. by 1 or more G3) / 10 / (Examples: octyl / Bu-n)

G2  = cyclohexyl (opt. subst. by 1 or more G3) / Ph (opt. subst. by 1 or more G3)
G3  = alkyl / alkoxy / alkyl (subst. by alkoxy / alkoxy / alkyl (subst. by alkoxy) / halo / cyclohexyl (opt. subst.by 1 or more G3) / Ph (opt. subst. by 1 or more G3) / 39 / (Example: 41)

G5  = heptyl / pentyl / Bu-n

 Patent location:  claim 1  
Note:  total number of carbon atoms in alkyl groups substituted with alkoxy groups in G1, G3, and G4 is 2-12

RE.CNT:  4     THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
DISPLAY QHIT (SET MPTASSEMBLY ON = SYSTEM DEFAULT)

MSTR 1 Assembled

\[ \text{Patent location: claim 1} \]
\[ \text{Note: also incorporates claim 10} \]
\[ \text{Note: or pharmaceutically acceptable salts, solvates, or prodrugs} \]
\[ \text{Stereochemistry: or diastereomers or enantiomers or stereoisomers} \]

DISPLAY QHIT (SET MPTASSEMBLY OFF)

MSTR 1

\[ G1 \text{--O--} G4 \]
\[ G2 = \text{Ph} \]
\[ G4 = 3 \]

\[ \text{Patent location: claim 1} \]
\[ \text{Note: also incorporates claim 10} \]
\[ \text{Note: or pharmaceutically acceptable salts, solvates, or prodrugs} \]
\[ \text{Stereochemistry: or diastereomers or enantiomers or stereoisomers} \]

DISPLAY QHIT (SET MPTASSEMBLY BOTH)

MSTR 1 Assembled

\[ \text{Patent location: claim 1} \]
\[ \text{Note: also incorporates claim 10} \]
\[ \text{Note: or pharmaceutically acceptable salts, solvates, or prodrugs} \]
\[ \text{Stereochemistry: or diastereomers or enantiomers or stereoisomers} \]

MSTR 1

\[ G1 \text{--O--} G4 \]
\[ G2 = \text{Ph} \]
\[ G4 = 3 \]

\[ \text{Patent location: claim 1} \]
\[ \text{Note: also incorporates claim 10} \]
\[ \text{Note: or pharmaceutically acceptable salts, solvates, or prodrugs} \]
\[ \text{Stereochemistry: or diastereomers or enantiomers or stereoisomers} \]
123: alkylene <containing 1-4 C>
125, 126, 128, 129, 131: opt. substd. by G7

Additional displayed G-groups:
G1 = alkyl <containing 1-10 C> / any ring <containing zero or more N, zero or more O, zero or more S (no other heteroatoms), aromatic, 1-3 rings, including 5- or 6-membered rings> (opt. substd. by G7) / (Specifically claimed: Me / Ph (opt. substd. by G7)) / (Examples: Et / Pr-n / Pr-i / Bu-n / Bu-i / Bu-s / Bu-t)

G3 = H / R

Patent location: claim 6
Note: also incorporates claim 7
Note: or salts