

CAS Update

Highlighting the News from CAS

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A division of the American Chemical Society

CAS Database Update

CAS REGISTRYSM now includes **55** million registered organic & inorganic substances

By **October 5, 2010**, CAS REGISTRY had recorded more than **55** million organic & inorganic substances.



CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica



- **CAS' coverage of Costa Rican (patent country code CR) patent documents includes kind codes A (patent applications) and U (utility model applications) from 2007 to date**
- **For the Republic of Argentina (patent country code AR), CAS now covers the following kind codes from 2006 to date:**
 - A (patent applications)
 - A2 (divisional patent applications)
 - A3 (additional patent applications)
 - A4 (independent utility model applications)
 - A6 (additional utility model applications)

The logo for STN, consisting of the letters 'S', 'T', and 'N' in a bold, blue, sans-serif font. The letters have a slight 3D effect with a gradient from dark blue to light blue. A registered trademark symbol (®) is located to the upper right of the 'N'. The logo is centered within a white rounded rectangle with a dark blue border.

STN[®]
Update

STN now offers a cross-over key PNK that combines the patent number with the kind code



Providing high precision data transfer between INPAFAMDB, CPlus and DWPI, especially for patent countries that have overlapping patent number series for applications and granted documents

CAS and FIZ Karlsruhe announced a new STN platform



- **New joint STN development effort announced 2Q10**
- **CAS is working closely with customers to guide development**
- **Prototype available 4Q10**
- **Release expected 4Q11**




SciFinder[®]

SciFinder[®]
Update

Search Markush structures in Explore Substances

Finding Information

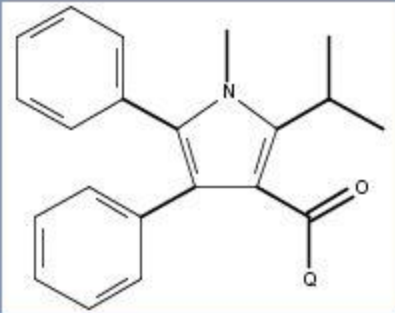
Explore Substances

Chemical Structure **Markush** 

Markush


Molecular Formula

Substance Identifier




Search

Click image to change structure or view detail

Search type:  Substructure Allow variability only as specified

Search by Digital Object Identifier (DOI)

Explore References

Research Topic	Document Identifier(s) 	<input type="text" value="10.1021/ol1007907"/> <input type="text" value="10.1021/jo100454m"/> <input type="text" value="10.1021/np050327j"/>	<input type="button" value="Search"/>
Author Name			
Company Name			
Document Identifier			
Journal		Enter one per line. Examples: <i>1983:4296</i> <i>107:12935</i> <i>10.1021/np050327j</i>	
Patent			
Tags			

Highlight reaction transformation centers

Reactions Get References Find Additional Reactions Combine Answer Sets

1 Reaction 0 Selected Keep Selected Remove Selected Save Print Export

Select All Deselect All Sort by: Accession Number Answers per Page [15]

Display:

1. [Reaction Detail](#) [Link](#) [Similar Reactions](#)

Oc1ccc2ccccc2c1
 $\xrightarrow[\text{S: (CH}_2\text{OH)}_2]{\text{R: Me}_2\text{NC(=S)Cl, R: KOH, R: HCl, S: H}_2\text{O, S: THF}}$
Sc1ccc2ccccc2c1

 59%

NOTE: Me₂NC(S)Cl/KOH, H₂O/THF/<12 C, No solvent, 270-275 C/45 min., KOH/H₂O/HOCH₂CH₂OH, Reflux 1 h., Aq. HCl, Hydrolysis, O-Acylation, O-Dearylation, Rearrangement, S-Arylation, S-Deacylation, Substitution, Sulphurization, Thiolation, Reactants: 1, Reagents: 3, Solvents: 3, Steps: 1, Stages: 1

Thiophenols from phenols: 2-Naphthalenethiol
 By Newman, Melvin S. and Hetzel, Frederick W.
 From Organic Syntheses, 51, No pp. given; 1971

Thank you!

www.cas.org