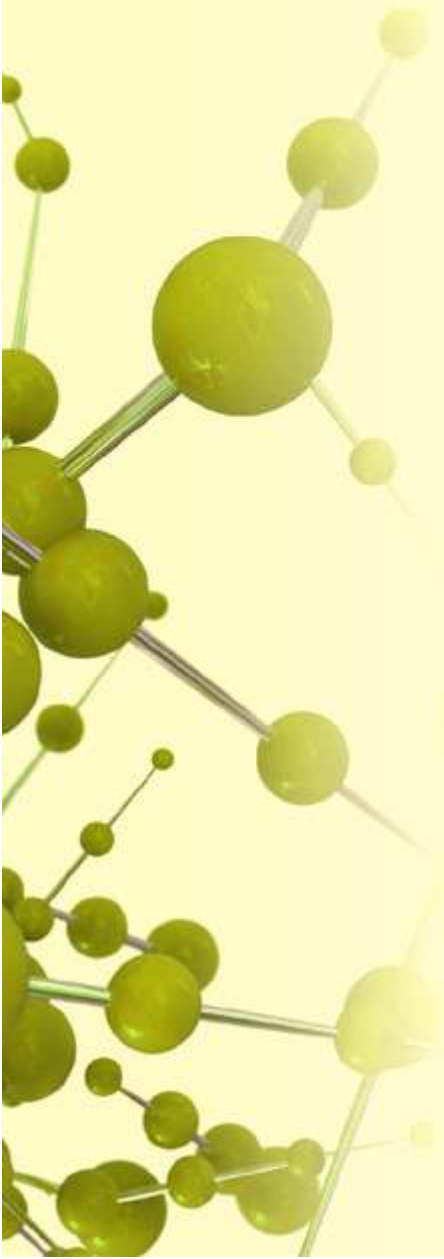


## Chemical Structures



With the release 4.0, Lifescience-Portal now offers a complete solution for Contract Manufacturing and Research Organizations.

Our unique integration of Chemical Structures enrich drug knowledge, support business intelligence and help Contract Manufacturing and Research Organizations expanding their client portfolios.

## Structure Profile Page Content

The Structure profile page is a rich collection of textual information, images, links to external databases and Lifescience-Portal's drug and company profiles.

Every structure can be easily reached using the advanced search tool, with multiple criteria simultaneously.

Structures properties, pharmacology, toxicity and absorption are provided for a majority of compounds.

**D00401** CAS Number: 60-56-0  
Reason for Update: mars 26, 2007 Updated from Drugbank

**Properties**

Weight	114.17g/mol
Molecular Formula	C4H6N2S
Charge	-0.2
Melting Point	146 °C
H2O Solubility	275 g/L
State	Solid

**Structure**

**Pharmacology**: Used in the treatment of hyperthyroidism or an overactive thyroid gland. methimazole inhibits the synthesis of thyroid hormones and thus is effective in the treatment of hyperthyroidism. It may also be used to ameliorate hyperthyroidism in preparation for subtotal thyroidectomy or radioactive iodine therapy.

**Toxicity**: Dose LD50 in rats is 2250 mg/kg. Symptoms of overdose include nausea, vomiting, epigastric distress, headache, fever, joint pain, pruritus, and edema. Aplastic anemia (pancytopenia) or agranulocytosis may be manifested in hours to days. Less frequent events are hepatitis, nephrotic syndrome, exfoliative dermatitis, neuropathies, and CNS stimulation or depression.

**Absorption**: Rapid with an oral bioavailability of 53%.

**Descriptors**

Chemical IUPAC: 1-methyl-3H-imidazole-2-thione  
InChI: 1/C4H6N2S/c1-6-3-2-5-4/[S-]1=C1N2C(=N1)S=C2  
SMILES: CN1C=NC(S)=N1

**Synonyms, Research and Brand Names (6)**

- D00401
- Methimazole
- Methimazole (USP)
- Tapazole
- Thiamazole
- Thiamazole (JP13)

**External References**

PubChem	Drug Bank	KEGG
7847467	APR000002	D00401

**Involved Companies**

Company	Drug	Discovery	Preclinical	Phase I	Phase II	Phase III	FDA Filing	Approval	Not Reported	Withdrawn
1. KING PHARMACEUTICALS INC	METHIMAZOLE									
2. GENPHARM	METHIMAZOLE									
3. CEDAR PHARMS	METHIMAZOLE									
4. JONES	METHIMAZOLE									

Most of the structures have 3D figures. Thanks to the Java™ technology, you are able to select the rendering, perform rotations, scaling, etc ...

Every structure is displayed with all its important descriptors.

When available, cross references to other databses, such as PubChem or KEGG are always provided.

An exhaustive list of companies developing or marketing this molecule is provided. Every company comes with the highest development status and tradename. Full Drug and Company profiles are just one click away!

## An Appropriate Solution For ...

- **Contract Manufacturing Organizations:** quickly identify companies you can potentially make business with.
- **Contract Research Organizations:** According to your areas of expertise, discover new opportunities and new customers.
- **Pharma / Biotech:** stay informed with the latest chemistry research. Understand the technology of your competitors.



The Lifescience-Portal brings you cutting edge information. Our platform is cross-linked to the major chemistry databases, such as Pubchem, to offer you a full support whenever you may need it.

For inquiries and trials, please contact our Office in Geneva, Switzerland:

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