

## Propoxur

## Chemical Properties

CAS No. : 114-26-1

Formula: C<sub>11</sub>H<sub>15</sub>NO<sub>3</sub>

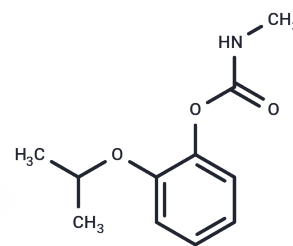
Molecular Weight: 209.24

Appearance: no data available

Storage:

keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|               |   |
|---------------|---|
| Description   | Propoxur (Propoxure) is an insecticide used to control cockroaches, flies, mosquitoes, and lawn and turf insects. Acute (short-term) exposure of humans to propoxur by ingestion leads to cholinesterase inhibition of red blood cells, with mild cholinergic symptoms including blurred vision, nausea, vomiting, sweating, and tachycardia; however, the effects are transient. Chronic (long-term) inhalation exposure has resulted in depressed cholinesterase levels, headaches, vomiting, and nausea in humans. Chronic ingestion studies in animals have reported depressed cholinesterase levels, depressed body weight, effects to the liver and bladder, and a slight increase in neuropathy. No information is available on the reproductive, developmental, or carcinogenic effects of propoxur in humans. Mixed results are available from cancer studies of propoxur in animals. EPA has not classified propoxur for carcinogenicity. |
| Targets(IC50) | AChR,Antifungal   |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 50 mg/mL (238.96 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 4.7792 mL | 23.896 mL | 47.792 mL |
| 5 mM  | 0.9558 mL | 4.7792 mL | 9.5584 mL |
| 10 mM | 0.4779 mL | 2.3896 mL | 4.7792 mL |
| 50 mM | 0.0956 mL | 0.4779 mL | 0.9558 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Mehta KD, et al. Environ Toxicol. 2014 Jun; 29(6): 705-13.

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