



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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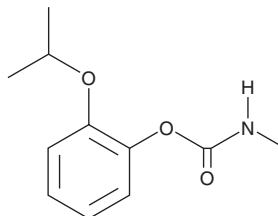
# PRODUCT INFORMATION



## Propoxur

Item No. 25628

**CAS Registry No.:** 114-26-1  
**Formal Name:** 2-(1-methylethoxy)-phenol  
1-(N-methylcarbamate)  
**Synonyms:** ENT 25,671, NSC 379584  
**MF:** C<sub>11</sub>H<sub>15</sub>NO<sub>3</sub>  
**FW:** 209.2  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 215, 272 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Propoxur is supplied as a crystalline solid. A stock solution may be made by dissolving the propoxur in the solvent of choice, which should be purged with an inert gas. Propoxur is slightly soluble in chloroform and methanol.

### Description

Propoxur is a carbamate insecticide and an inhibitor of acetylcholinesterase.<sup>1</sup> It is lethal to German cockroaches (*B. germanica*) with LD<sub>50</sub> values of 2.45, 4.73, and 1.06 µg per insect for newly emerged males, newly emerged females, and 4-week-old nymphs, respectively. Propoxur induces lactate dehydrogenase (LDH) release from and inhibits the growth of flounder gill cells (IC<sub>50</sub>s = 86.59 and 89.96 µg/ml, respectively) via induction of necrosis.<sup>2</sup> It also induces yolk sac and pericardial edema in zebrafish embryos when used at concentrations of 100 and 200 µg/ml. Propoxur (8.3 mg/kg) inhibits rat blood and brain cholinesterase, decreases ambulation and rearing in an open field test, and increases latency to escape foot shock after an audio stimulus in the two-way active avoidance box in rats.<sup>3</sup>

### References

1. Qian, K., Wei, X., Zeng, X., *et al.* Stage-dependent tolerance of the German cockroach, *Blattella germanica* for dichlorvos and propoxur. *J. Insect Sci.* **10**(1), 201 (2010).
2. Pandey, M.R. and Guo, H. Evaluation of cytotoxicity, genotoxicity and embryotoxicity of insecticide propoxur using flounder gill (FG) cells and zebrafish embryos. *Toxicol. In Vitro* **28**(3), 340-353 (2014).
3. Thiesen, F.V., Barros, H.M.T., Tannhauser, M., *et al.* Behavioral changes and cholinesterase activity of rats acutely treated with propoxur. *Jpn. J. Pharmacol.* **79**(1), 25-31 (1999).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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