

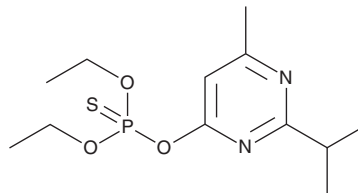
PRODUCT INFORMATION



Diazinon

Item No. 23769

CAS Registry No.: 333-41-5
Formal Name: phosphorothioic acid, O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester
Synonym: NSC 8938
MF: C₁₂H₂₁N₂O₃PS
FW: 304.3
Purity: ≥98%
Supplied as: An oil
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Diazinon is supplied as an oil. A stock solution may be made by dissolving the diazinon in the solvent of choice, which should be purged with an inert gas. Diazinon is slightly soluble in chloroform.

Description

Diazinon is a broad-spectrum insecticide that is active against approximately 120 species of insects and pests.¹ It is metabolized into the cholinesterase inhibitors monothionotetraethyl pyrophosphate, dithionotetraethyl pyrophosphate, and triethylthionophosphate *in vivo*, which induce vomiting in dogs and pigs and fasciculation with muscular twitching, paralysis, and death in rats (LD₅₀ = 125 mg/kg). Diazinon induces formation of capsular adhesion in the kidneys and ulcer formation in the duodenum of dogs as well as mucosal erosion and serosal seepage in the intestines of mini pigs. Formulations containing diazinon were previously used as agricultural pesticides.

References

1. Earl, F.L., Melveger, B.E., Reinwall, J.E., *et al.* Diazinon toxicity-comparative studies in dogs and miniature swine. *Toxicol. Appl. Pharmacol.* **18(2)**, 285-295 (1971).

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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