

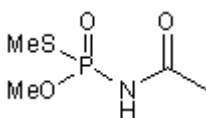
Certificate of Analysis

Product Name: Acephate
CAS Number: 30560-19-1
IUPAC Name: Acetylphosphoramidothioic acid O,S-dimethyl ester

Catalog No.: 3069
Batch No.: 1
EC Number: 250-241-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₁₀NO₃PS
Batch Molecular Weight: 183.17
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	26.23	5.5	7.64
Found	26.14	5.55	7.49

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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EC Number: 250-241-2

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Description:

Anticholinesterase insecticide that produces cholinotoxicity. Displays weak inhibition of rat acetylcholinesterase (AChE) but potently inhibits cockroach AChE.

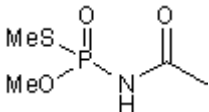
Physical and Chemical Properties:

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Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Singh (1990) Molecular properties and inhibition of acetylcholinesterase obtained from rat brain and cockroach ganglion. *Toxicol.Ind.Health* **6** 551.

Kumar (2004) Changes in rat brain regions serotonergic system following acephate poisoning. *Pest.Biochem.Physiol.* **78** 140.

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