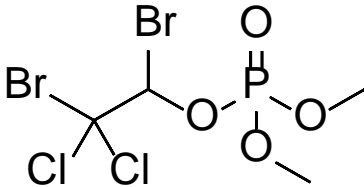


# Product data sheet



MedKoo Cat#: 592737 Name: Naled CAS: 300-76-5 Chemical Formula: C <sub>4</sub> H <sub>7</sub> Br <sub>2</sub> Cl <sub>2</sub> O <sub>4</sub> P Exact Mass: 377.7826 Molecular Weight: 380.7778	
Product supplied as: Powder	
Purity (by HPLC): ≥ 98%	
Shipping conditions: Ambient temperature	
Storage conditions: Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

## 1. Product description:

Naled is an organophosphate cholinesterase inhibitor that is used as an insecticide and as an acaricide.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	30.0	78.79
DMSO	30.0	78.79
Ethanol	30.0	78.79
Ethanol:PBS (pH 7.2) (1:4)	0.20	0.53

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.63 mL	13.13 mL	26.26 mL
5 mM	0.53 mL	2.63 mL	5.25 mL
10 mM	0.26 mL	1.31 mL	2.63 mL
50 mM	0.05 mL	0.26 mL	0.53 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

1. Zhong H, Latham M, Hester PG, Frommer RL, Brock C. Impact of naled on honey bee *Apis mellifera* L. survival and productivity: aerial ULV application using a flat-fan nozzle system. *Arch Environ Contam Toxicol.* 2003 Aug;45(2):216-20. doi: 10.1007/s00244-002-0185-8. PMID: 14565579.

2. Howard JJ, Oliver J. Impact of naled (Dibrom 14) on the mosquito vectors of eastern equine encephalitis virus. *J Am Mosq Control Assoc.* 1997 Dec;13(4):315-25. PMID: 9474556.

## 7. Bioactivity

Biological target:

Naled is an organophosphate cholinesterase inhibitor.

# Product data sheet



In vitro activity

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TBD

In vivo activity

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A study was conducted to evaluate the impact of naled on honey bees as a result of their exposure to aerial ULV applications of this insecticide during three routine mosquito spray missions by Manatee County Mosquito Control District in Florida during the summer of 1999. The average yield of honey per hive was significantly lower ( $p < 0.05$ ) for naled-exposed hives compared with unexposed hives.

Reference: Arch Environ Contam Toxicol. 2003 Aug;45(2):216-20. <https://pubmed.ncbi.nlm.nih.gov/14565579/>

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*