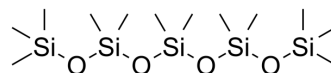


## Dodecamethylpentasiloxane

<b>Cat. No.:</b>	HY-W011035
<b>CAS No.:</b>	141-63-9
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>36</sub> O <sub>4</sub> Si <sub>5</sub>
<b>Molecular Weight:</b>	384.84
<b>Target:</b>	Parasite
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10 mg/mL (25.98 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5985 mL	12.9924 mL	25.9848 mL
	5 mM	0.5197 mL	2.5985 mL	5.1970 mL
	10 mM	0.2598 mL	1.2992 mL	2.5985 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Dodecamethylpentasiloxane is a component of siloxanes and can be used as silicone oil. Dodecamethylpentasiloxane exhibits insecticidal activity against bed bug<sup>[1][2]</sup>.

### REFERENCES

- [1]. Luuc Keulen, et al. Bubble-Point Measurements and Modeling of Binary Mixtures of Linear Siloxanes. J Chem Eng Data. 2018;63:10.1021/acs.jced.8b00200.
- [2]. Chen Zha, et al. Toxicities of Selected Essential Oils, Silicone Oils, and Paraffin Oil Against the Common Bed Bug (Hemiptera: Cimicidae). J Econ Entomol. 2018 Feb 9;111(1):170-177.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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