

## Distearyl thiodipropionate

## Chemical Properties

CAS No. :	693-36-7
Formula:	C42H82O4S
Molecular Weight:	683.16
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Distearyl thiodipropionate (DSTDP) is a thioester-type secondary antioxidant that primarily terminates oxidative chain reactions by decomposing peroxides (such as hydroperoxides), thereby protecting materials like polymers and oils. It is commonly used in combination with primary phenolic antioxidants to achieve synergistic effects, and is widely applied in plastics, synthetic rubber, lubricating greases, and food-contact materials, as well as in cosmetics and certain food products.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4638 mL	7.3189 mL	14.6379 mL
5 mM	0.2928 mL	1.4638 mL	2.9276 mL
10 mM	0.1464 mL	0.7319 mL	1.4638 mL
50 mM	0.0293 mL	0.1464 mL	0.2928 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hu J, et al. Effect of primary-secondary synergistic system on the aging resistance of Salix psammophila/polylactic acid composites. RSC Adv. 2026;16(15):13585-13596.

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