



LKT Laboratories, Inc.

## Dipropyl Disulfide

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### Product Information

Product ID D3261

CAS No. 629-19-6

#### Chemical Name

**Synonym** 4,5-Dithiaoctane, Di-n-propyl disulfide, n-Propyl disulfide, Propyldithiopropene, n-Propyl disulfide, Propyl disulfide

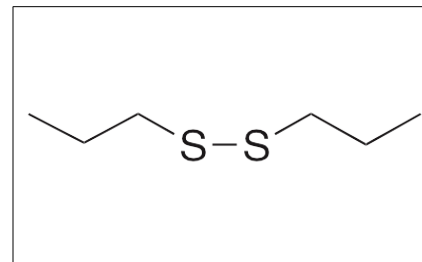
**Formula** C<sub>6</sub>H<sub>14</sub>S<sub>2</sub>

**Formula Wt.** 150.31

**Melting Point** -86 °C

**Purity** ≥98%

**Solubility** Insoluble in water.



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
D3261	25 g	\$55.10
D3261	100 g	\$220.50

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Dipropyl disulfide is an organosulfide found in *Allium* that exhibits antioxidative, anti-hyperlipidemic, and chemopreventive activities. Dipropyl disulfide induces phase II enzymes, increasing levels of glutathione-S-transferase in vitro. Dipropyl disulfide also decreases N-nitrosamine-induced DNA damage in vitro and suppresses benzo[a]pyrene-induced carcinogenesis in vivo. Additionally, this compound also inhibits cholesterol synthesis in vivo at low concentrations. TEST!!!!!!

**References** Tsai CW, Liu KL, Lin CY, et al. Structure and function relationship study of allium organosulfur compounds on upregulating the pi class of glutathione S-transferase expression. J Agric Food Chem. 2011 Apr 13;59(7):3398-405. PMID: 21381664.

Arranz N, Haza AI, García A, et al. Protective effects of organosulfur compounds towards N-nitrosamine-induced DNA damage in the single-cell gel electrophoresis (SCGE)/HepG2 assay. Food Chem Toxicol. 2007 Sep;45(9):1662-9. PMID: 17434656.

Yeh YY, Liu L. Cholesterol-lowering effect of garlic extracts and organosulfur compounds: human and animal studies. J Nutr. 2001 Mar;131(3s):989S-93S. PMID: 11238803.

Srivastava SK, Hu X, Xia H, et al. Mechanism of differential efficacy of garlic organosulfides in preventing benzo(a)pyrene-induced cancer in mice. Cancer Lett. 1997 Sep 16;118(1):61-7. PMID: 9310261.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.