



>>Entry Name: **Dipropylcarbamothioic acid**, 9CI

Synonym(s): Dipropylthiocarbamic acid

Related CAS Registry Numbers(s): 51990-04-6

$(\text{H}_3\text{CCH}_2\text{CH}_2)_2\text{NCOSH}$

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NOS}$

Molecular Weight: 161.268

Accurate Mass: 161.087434

Percentage Composition: C 52.14%; H 9.37%; N 8.69%; O 9.92%; S 19.88%

>>Derivative: S-Et ester

Synonym(s): S-Ethyl dipropylcarbamothioate, 9CI. EPTC, BSI. Eptam. Alirox. Niptan

CAS Registry Number: 759-94-4

Molecular Formula: $\text{C}_9\text{H}_{19}\text{NOS}$

Molecular Weight: 189.321

Accurate Mass: 189.118734

Percentage Composition: C 57.10%; H 10.12%; N 7.40%; O 8.45%; S 16.94%

Use/Importance: Preplanting soil incorporated herbicide

Physical Description: Liq.

Solubility: Spar. sol. H_2O

Density: d^{30} 0.955

Refractive Index: n_D^{30} 1.4750

Hazard & Toxicity: LD_{50} (rat, orl) 1325 mg/kg. LD_{50} (rbt, skn) 1460 mg/kg

Supelco: R42-7590

>>Derivative: S-Propyl ester

Synonym(s): S-Propyl dipropylcarbamothioate. Vernolate, BSI. Vernam

CAS Registry Number: 1929-77-7

Molecular Formula: $\text{C}_{10}\text{H}_{21}\text{NOS}$

Molecular Weight: 203.348

Accurate Mass: 203.134384

Percentage Composition: C 59.07%; H 10.41%; N 6.89%; O 7.87%; S 15.77%

Use/Importance: Preemergence herbicide

Boiling Point: Bp_{30} 150°

Density: d^{20} 0.954

Other Data: n^{30} 1.4736

Supelco: 44-2835

>>Derivative: S-Benzyl ester

Synonym(s): S-(Phenylmethyl) dipropylcarbamothioate, 9CI. S-Benzyl dipropylthiocarbamate. Prosulfocarb, BSI, ISO. Boxer

CAS Registry Number: 52888-80-9

Molecular Formula: $\text{C}_{14}\text{H}_{21}\text{NOS}$

Molecular Weight: 251.392

Accurate Mass: 251.134384

Percentage Composition: C 66.89%; H 8.42%; N 5.57%; O 6.36%; S 12.76%

Use/Importance: Herbicide

Physical Description: Liq.

Boiling Point: $\text{Bp}_{0.25}$ 129°

References: