



>>Entry Name: Didodecyl sulfide

Synonym(s): 1,1'-Thiobisdodecane, 9CI. Dodecyl sulfide, 8CI

CAS Registry Number: 2469-45-6

$\text{H}_3\text{C}(\text{CH}_2)_{11}\text{S}(\text{CH}_2)_{11}\text{CH}_3$

Molecular Formula: $\text{C}_{24}\text{H}_{50}\text{S}$

Molecular Weight: 370.725

Accurate Mass: 370.36332

Percentage Composition: C 77.76%; H 13.59%; S 8.65%

Use/Importance: Antioxidant, stabiliser

Physical Description: Cryst. (Me_2CO)

Melting Point: Mp 38-40°

Boiling Point: Bp₄ 260-263°

Aldrich: D22280-1

>>Derivative: S-Oxide

Synonym(s): 1,1'-Sulfinylbisdodecane

CAS Registry Number: 2168-96-9

Molecular Formula: $\text{C}_{24}\text{H}_{50}\text{OS}$

Molecular Weight: 386.724

Accurate Mass: 386.358235

Percentage Composition: C 74.54%; H 13.03%; O 4.14%; S 8.29%

Melting Point: Mp 88-88.5°

Rare Chemicals Library: S83329-0

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 430A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 267C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 351B, (*ir*)

Bezzi, S. *et al.*, *Gazz. Chim. Ital.*, 1950, **80**, 180, (*synth, bibl, use*)

Mori, K. *et al.*, *J.O.C.*, 1969, **34**, 4170, (*synth*)

Sinnreich, D. *et al.*, *Tet. Lett.*, 1976, 3541, (*oxide*)

Ogura, F. *et al.*, *Bull. Chem. Soc. Jpn.*, 1982, **55**, 641, (*oxide*)

Castrillon, J. *et al.*, *Rev. Latinoam. Quim.*, 1982, **13**, 102, (*oxide*)

Kajigoeski, S. *et al.*, *Bull. Chem. Soc. Jpn.*, 1989, **62**, 3376, (*oxide*)