



>>Entry Name: 1-Dodecanethiol, 9CI

Synonym(s): 1-Mercaptododecane. Lauryl mercaptan. Dodecyl mercaptan. Thiododecyl alcohol

CAS Registry Number: 112-55-0

Extra CAS Registry Numbers(s): 1322-36-7

Type of Compound Code(s): PG5200

$\text{H}_3\text{C}(\text{CH}_2)_{10}\text{CH}_2\text{SH}$

Molecular Formula: $\text{C}_{12}\text{H}_{26}\text{S}$

Molecular Weight: 202.403

Accurate Mass: 202.17552

Percentage Composition: C 71.21%; H 12.95%; S 15.84%

Use/Importance: Reagent used to determine unsaturation in alkenic compds.

Physical Description: Liq.

Boiling Point: Bp₃₉ 165-169°. Bp₁₅ 142-145°

Aldrich: 47136-4

Fluka: 44130

Sigma: D3270

Supelco: R47-2005

>>Derivative: S-Me

Synonym(s): 1-(Methylthio)dodecane, 9CI. Dodecyl methyl sulfide

CAS Registry Number: 3698-89-3

Molecular Formula: $\text{C}_{13}\text{H}_{28}\text{S}$

Molecular Weight: 216.43

Accurate Mass: 216.19117

Percentage Composition: C 72.14%; H 13.04%; S 14.82%

Boiling Point: Bp₁₆ 156°. Bp₅ 90°

Other: PB D56610

References:

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Frank, R.L. *et al.*, *J.A.C.S.*, 1946, **48**, 2103, (synth)

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