



>>Entry Name: 1,5-Pentanedithiol

Synonym(s): 1,5-Dimercaptopentane

CAS Registry Number: 928-98-3

HSCH₂(CH₂)₃CH₂SH

Molecular Formula: C₅H₁₂S₂

Molecular Weight: 136.282

Accurate Mass: 136.03804

Percentage Composition: C 44.07%; H 8.87%; S 47.06%

Melting Point: Mp -72°

Boiling Point: Bp 217°. Bp₁₅ 108-109°. Bp₁₀ 90°

Density: d₄²⁰ 1.016

Aldrich: 24255-1

Fluka: 76920

>>Derivative: Di-Ac

Molecular Formula: C₉H₁₆O₂S₂

Molecular Weight: 220.356

Accurate Mass: 220.05917

Percentage Composition: C 49.06%; H 7.32%; O 14.52%; S 29.10%

Boiling Point: Bp_{0.5} 184-187°

>>Derivative: Di-S-Me

Synonym(s): 1,5-Bis(methylthio)pentane, 9CI

CAS Registry Number: 54410-63-8

Molecular Formula: C₇H₁₆S₂

Molecular Weight: 164.335

Accurate Mass: 164.06934

Percentage Composition: C 51.16%; H 9.81%; S 39.03%

Boiling Point: Bp₂₂ 128°. Bp₈ 112-114°

Rare Chemicals Library: S37589-6

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 420B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 261A, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 342D, (*ir*)

Hall, W.P. *et al.*, *J.A.C.S.*, 1943, **65**, 1466, (*synth*)

Grogan, C.H. *et al.*, *J.O.C.*, 1955, **20**, 50, (*synth*)

Cossar, B.C. *et al.*, *J.O.C.*, 1962, **27**, 93, (*synth*)