



>>Entry Name: 1-Octadecanethiol

Synonym(s): 1-Mercaptooctadecane. Octadecyl mercaptan

CAS Registry Number: 2885-00-9

$\text{H}_3\text{C}(\text{CH}_2)_{16}\text{CH}_2\text{SH}$

Molecular Formula: $\text{C}_{18}\text{H}_{38}\text{S}$

Molecular Weight: 286.564

Accurate Mass: 286.26942

Percentage Composition: C 75.44%; H 13.37%; S 11.19%

Physical Description: Waxy solid with strong odour

Melting Point: Mp 32-32.5°

Boiling Point: Bp₄ 170-175°

Aldrich: O-185-8

Fluka: 74731

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **1**, 414C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 257C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 338D, (*ir*)

Org. Synth., 1941, **21**, 36, (*synth*)

U.S. Pat., 1951, 2 551 813; *CA*, **45**, 9559, (*synth*)

Shirley, D.A. *et al.*, *J.O.C.*, 1953, **18**, 1591, (*synth*)

U.S. Pat., 1960, 2 998 455; *CA*, **56**, 2333, (*synth*)