



>>Entry Name: 1,6-Dimethylnaphthalene, 9CI

CAS Registry Number: 575-43-9

Extra CAS Registry Numbers(s): 28804-88-8

Structure by analogy with 1,2-Dimethylnaphthalene, [FNV53-G](#)

Molecular Formula: C₁₂H₁₂

Molecular Weight: 156.227

Accurate Mass: 156.0939

Percentage Composition: C 92.26%; H 7.74%

Source/Synthesis: Occurs in coal tar

Physical Description: Liq.

Melting Point: Mp -16.9°

Boiling Point: Bp 265-266°. Bp₁₅ 130-135°

Density: d₄¹⁶ 1.009

Refractive Index: n_D²⁰ 1.6073

Hazard & Toxicity: Fl. p. 94°

Aldrich: 25093-7

Fluka: 40808

Rare Chemicals Library: S56378-1

Sigma: D0158

>>Derivative: Picrate

Physical Description: Orange-red needles (EtOH or Et₂O)

Melting Point: Mp 114°

>>Derivative: 1,3,5-Trinitrobenzene complex

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 132-133°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 43C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 958C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 880A, (*ir*)

Kipping, F.B. *et al.*, *J.C.S.*, 1940, 1239

Adv. Chem. Ser., 1955, **15**, 212, (*props*)

Dalling, D.K. *et al.*, *J.A.C.S.*, 1977, **99**, 7142, (*cmr*)

Sepiol, J., *Synthesis*, 1983, 504, (*synth, pmr*)