



>>Entry Name: 1,3-Dimethylnaphthalene, 9CI

CAS Registry Number: 575-41-7

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 gas oil

Physical Description: Liq.

Melting Point: Mp -10°

Boiling Point: Bp 265°. Bp₁ 107°

Density: d₄²⁰ 1.014

Refractive Index: n_D²⁰ 1.6090

Aldrich: D17020-8

Fluka: 40780

>>Derivative: Picrate

Physical Description: Orange needles (MeOH)

Melting Point: Mp 118°

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

Melting Point: Mp 134-136°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 42C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 957C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 879B, (*ir*)

Kloetzel, M.C., *J.A.C.S.*, 1940, **62**, 1708

Adv. Chem. Ser., 1955, **15**, 209, (*props*)

Balaban, A.T. *et al.*, *Chem. Ind. (London)*, 1967, 404, (*synth*)

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