



>>Entry Name: 1,8-Dimethylnaphthalene, 9CI

CAS Registry Number: 569-41-5

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: Found in petroleum

Use/Importance: Abundance of 1,8-dimethylnaphthalene is said to be an indicator of petroleum maturity

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 63.5-64.5°

Boiling Point: Bp₁₈ 140°

Aldrich: 28253-7

Fluka: 40815

Sigma: D7654

>>Derivative: Picrate

Physical Description: Orange-yellow cryst. (EtOH)

Melting Point: Mp 156°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 44A, (*nmr*)

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

Linstead, R.P. *et al.*, *J.C.S.*, 1937, 1146

Adv. Chem. Ser., 1955, **15**, 214, (*props*)

Denisova, L.I. *et al.*, *Zh. Obshch. Khim.*, 1964, **34**, 519, (*synth*)

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

Alexander, R. *et al.*, *Nature (London)*, 1984, **308**, 442, (*use*)