



>>Entry Name: 2,7-Dimethylnaphthalene

CAS Registry Number: 582-16-1

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 and petroleum

Physical Description: Leaflets (EtOH)

Melting Point: Mp 96-97°

Boiling Point: Bp 262°

Aldrich: 27991-9

Fluka: 40840

>>Derivative: Picrate

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 136-136.5°

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

Physical Description: Canary-yellow needles

Melting Point: Mp 151-153°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 45B, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 881B, (*ir*)

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Wolinska-Mocydlarz, J. *et al.*, *Synthesis*, 1974, 566, (*synth, pmr*)

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

Sepiol, J., *Synthesis*, 1983, 559, (*synth*)

Terfort, A. *et al.*, *Synthesis*, 1997, 79, (*synth, pmr*)

Org. Synth., 2000, **78**, 42-50, (*synth, pmr, cmr*)