



>>Entry Name: 3,5-Dimethylpyridine, 9CI

Synonym(s): 3,5-Lutidine, 8CI

CAS Registry Number: 591-22-0

Related CAS Registry Numbers(s): 27175-64-0

Structure by analogy with 2,3-Dimethylpyridine, [FWV38-Q](#)

Molecular Formula: C₇H₉N

Molecular Weight: 107.155

Accurate Mass: 107.073499

Percentage Composition: C 78.46%; H 8.47%; N 13.07%

Source/Synthesis: Constit. of coal tar and shale oil

Physical Description: Liq.

Boiling Point: Bp 168-171°. Bp₁₀₂ 105-107°

Solubility: Sol. EtOH, Et₂O; mod. sol. H₂O

Density: d²⁰ 0.91

pK_a Value: pK_a 6.15 (25°)

Refractive Index: n_D²⁵ 1.4995

Other Data: Steam-volatile

Hazard & Toxicity: Irritant

Aldrich: L420-6

Fluka: 62790

Sigma: L2888

>>Derivative: Picrate

Melting Point: Mp 242-243 dec.°

>>Derivative: N-Oxide

CAS Registry Number: 3718-65-8

Molecular Formula: C₇H₉NO

Molecular Weight: 123.154

Accurate Mass: 123.068414

Percentage Composition: C 68.27%; H 7.37%; N 11.37%; O 12.99%

Physical Description: Cryst.

Melting Point: Mp 102°

References:

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Essery, J.M. *et al.*, *J.C.S.*, 1961, 3939, (*uv*)
Toshihiro, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1962, **35**, 1438, (*synth*)
Green, J.H.S. *et al.*, *Spectrochim. Acta A*, 1970, **26**, 2139, (*ir, Raman*)
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