



>>Entry Name: *N,N*-Dimethylbenzamide, 9CI

Synonym(s): Benzoyldimethylamine

CAS Registry Number: 611-74-5

Related CAS Registry Numbers(s): 22450-65-3 24768-98-7

PhCONMe₂

Molecular Formula: C₉H₁₁NO

Molecular Weight: 149.192

Accurate Mass: 149.084064

Percentage Composition: C 72.46%; H 7.43%; N 9.39%; O 10.72%

Physical Description: Liq. or cryst.

Melting Point: Mp 40-41° (38-40°)

Boiling Point: Bp₃₅ 157-158°

pK_a Value: pK_a 12.79 (25°,HCl) pK_a 12.53 (25°,HClO₄)

Hazard & Toxicity: LD₅₀ (mus, orl) 960 mg/kg

Aldrich: 27617-0

References:

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Jackman, L.M. *et al.*, *Org. Magn. Reson.*, 1969, **1**, 109, (pmr, conformn)

Elson, I.H. *et al.*, *J.C.S. Faraday 2*, 1972, **68**, 1452, (epr)

Barnett, J.W. *et al.*, *Aust. J. Chem.*, 1973, **26**, 2083, (props)

Reio, L., *J. Chromatogr.*, 1974, **88**, 119, (chromatog)

Spasov, S.L. *et al.*, *Org. Magn. Reson.*, 1974, **6**, 20, (ir)

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Fong, C.-W. *et al.*, *Z. Naturforsch., B*, 1981, **36**, 585, (cmr)

Suezawa, H. *et al.*, *Bull. Chem. Soc. Jpn.*, 1988, **61**, 4057, (pmr, cmr, N-15 nmr, O-17 nmr)

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