



>>Entry Name: *N,N'*-Diphenylformamidine, 8Cl

Synonym(s): *N,N'*-Diphenylmethanimidamide, 9Cl

CAS Registry Number: 622-15-1

PhN=CHNHPH

Molecular Formula: C₁₃H₁₂N₂

Molecular Weight: 196.251

Accurate Mass: 196.100048

Percentage Composition: C 79.56%; H 6.16%; N 14.27%

Physical Description: Needles (EtOH)

Melting Point: Mp 137° (142°)

Aldrich: 15964-6

Fluka: 43020

>>Derivative: Hydrochloride

Physical Description: Cryst. +3H₂O

Melting Point: Mp 255°

>>Derivative: Picrate

Melting Point: Mp 187°. Mp 193°

>>Derivative: *N*-Me

CAS Registry Number: 32189-59-6

Molecular Formula: C₁₄H₁₄N₂

Molecular Weight: 210.278

Accurate Mass: 210.115698

Percentage Composition: C 79.97%; H 6.71%; N 13.32%

Physical Description: Bright-yellow oil

Boiling Point: Bp₂₆ 218-219°

>>Derivative: *N*-Me; hydrochloride

CAS Registry Number: 40917-92-8

Melting Point: Mp 228°

References:

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Shoesmith, J.B. *et al.*, *J.C.S.*, 1923, **123**, 2705, (*synth*)

Hinkel, L.E. *et al.*, *J.C.S.*, 1930, 1834, (*synth*)

Bredereck, H. *et al.*, *Chem. Ber.*, 1959, **92**, 837, (*deriv*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 339

Kiro, Z.B. *et al.*, *Zh. Org. Khim.*, 1971, **7**, 2196; 1972, **8**, 2573, (*deriv, ir, pmr, uv*)

Tritschler, W. *et al.*, *Synthesis*, 1973, 423, (*synth*)

Bouillon, G. *et al.*, *Chem. Ber.*, 1974, **112**, 2332, (*synth*)

Naulet, N. *et al.*, *Org. Magn. Reson.*, 1975, **7**, 326, (*cmr*)

Kashima, C. *et al.*, *Bull. Chem. Soc. Jpn.*, 1986, **59**, 3317, (*synth, pmr*)