



>>Entry Name: 3,5-Dimethyl-1-phenyl-1*H*-pyrazole

Synonym(s): PDMP

CAS Registry Number: 1131-16-4

Structure by analogy with 3,4-Dimethyl-5-phenyl-1*H*-pyrazole, [DHS28-B](#)

Molecular Formula: C₁₁H₁₂N₂

Molecular Weight: 172.229

Accurate Mass: 172.100048

Percentage Composition: C 76.71%; H 7.02%; N 16.27%

Use/Importance: Forms complexes with Cu, Ag and Co.

Boiling Point: Bp 273°. Bp_{12.5} 145-146°

Other Data: Steam-volatile

Rare Chemicals Library: S45214-9

>>Derivative: Hydrochloride

Melting Point: Mp 158°

>>Derivative: Methiodide

Melting Point: Mp 190°

References:

dal Monte, D. *et al.*, *Gazz. Chim. Ital.*, 1956, **86**, 797, (*uv*)

Charelte, J. *et al.*, *Spectrochim. Acta*, 1959, **15**, 70, (*ir*)

Ried, W. *et al.*, *Annalen*, 1962, **656**, 119, (*synth*)

Tensmeyer, L.G. *et al.*, *J.O.C.*, 1966, **31**, 1878, (*pmr*)

Elguero, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1970, 689

Elguero, J. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1978, **287**, 439

Gonzales, E. *et al.*, *Org. Magn. Reson.*, 1979, **12**, 587, (*cmr*)

Zuckerman-Schpector, J. *et al.*, *Can. J. Chem.*, 1982, **60**, 97, (*cryst struct*)

Alberola, A. *et al.*, *J. Het. Chem.*, 1984, **21**, 1575, (*synth*)