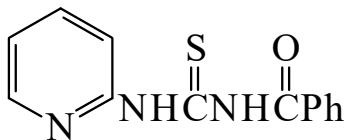




>>Entry Name: *N*-Benzoyl-*N'*-(2-pyridyl)thiourea

Synonym(s): *N*-[[[2-Pyridinyl)amino]thioxomethyl]benzamide, 9Cl



CAS Registry Number: 4921-86-2

Molecular Formula: C₁₃H₁₁N₃OS

Molecular Weight: 257.315

Accurate Mass: 257.062282

Percentage Composition: C 60.68%; H 4.31%; N 16.33%; O 6.22%; S 12.46%

Use/Importance: Used as a 0.1m*M* or 1% soln. in EtOH for photometric detn. of Cu ($\lambda_{\max}$ 430 nm, ϵ 3100); as 1% soln. in 30% AcOH for gravimetric and extraction-photometric detn. of Os, Ir, Rh ($\lambda_{\max}$ 350 nm, ϵ 18000, CHCl₃)

Physical Description: Cryst.

Melting Point: Mp 144°

Solubility: Sol. Me₂CO, EtOH, CHCl₃, C₆H₆, H₂O, AcOH

Rare Chemicals Library: S7768-3

References:

Das, M.K. *et al.*, *Microchem. J.*, 1970, **15**, 540, (*detn.*, Cu)

Wandalkar, D.N. *et al.*, *Fresenius' Z. Anal. Chem.*, 1976, **280**, 220, (*detn.*, Os)

Shome, S.C. *et al.*, *J. Indian Chem. Soc.*, 1977, **54**, 599; 1980, **57**, 139, (*synth.*, *detn.*, Os)