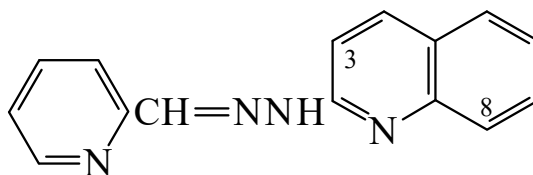




>>Entry Name: 2-Pyridinecarboxaldehyde 2-quinolinyldiazone, 9Cl
ENTRY UNDER REVIEW



CAS Registry Number: 7385-99-1

Molecular Formula: C₁₅H₁₂N₄

Molecular Weight: 248.287

Accurate Mass: 248.106196

Percentage Composition: C 72.56%; H 4.87%; N 22.57%

Use/Importance: Used as metallochromic indicator for titrimetric detn. of Cu; extraction-photometric detn. of Pd ($\lambda_{\max}$ 594 nm), Ni ($\lambda_{\max}$ 515 nm, ϵ 67000, C₆H₆), Cu, Fe, Zn, Cd; photometric detn. of Co ($\lambda_{\max}$ 510 nm, ϵ 30000), Ni ($\lambda_{\max}$ 492 nm, ϵ 50500)

Physical Description: Yellow cryst. (EtOH aq.)

Melting Point: Mp 197°

Solubility: Spar. sol. EtOH

pKa Value: pK_{a1} 2.76; pK_{a2} 5.99; pK_{a3} 14.12

Rare Chemicals Library: S45560-1

Sigma: P8764

References:

- Heit, M.L. *et al.*, *Anal. Chim. Acta*, 1965, **32**, 448; 1966, **34**, 407, (*synth, use, detn, Pd*)
Singhal, S.P. *et al.*, *Anal. Chim. Acta*, 1967, **37**, 91, (*detn, Co, Ni*)
Jensen, R.E. *et al.*, *Anal. Chim. Acta*, 1967, **37**, 397, (*detn, Pd*)
Afghan, B.K. *et al.*, *Anal. Chim. Acta*, 1968, **41**, 167, (*detn, Ni*)
Frei, R.W. *et al.*, *Anal. Chim. Acta*, 1971, **55**, 125, (*synth, use*)
Berger, S.A. *et al.*, *Mikrochim. Acta*, 1974, 679, (*detn, Cu*)
Taya, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1993, **66**, 3652, (*props*)