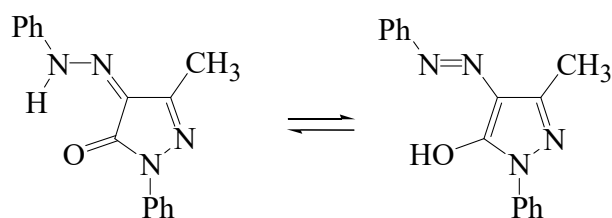




>>Entry Name: 2,4-Dihydro-5-methyl-2-phenyl-4-(phenylazo)-3H-pyrazol-3-one, 9CI

Synonym(s): C.I. Disperse Yellow, 8CI



CAS Registry Number: 4314-14-1

Molecular Formula: C₁₆H₁₄N₄O

Molecular Weight: 278.313

Accurate Mass: 278.116761

Percentage Composition: C 69.05%; H 5.07%; N 20.13%; O 5.75%

General Statement: Oxo-hydrazone form predominates in the crystalline state and in CHCl₃ soln. Mixtures of keto and enol tautomers are seen in polar solvs. such as DMSO, Py

Use/Importance: Textile dyestuff

Physical Description: Deep orange cryst. (EtOH)

Melting Point: Mp 156°

References:

Lestina, G.J. *et al.*, *J.O.C.*, 1969, **34**, 1685-1686, (*pmr, tautom*)

Shpileva, I.S. *et al.*, *Zh. Org. Khim.*, 1976, **12**, 249-255; *J. Org. Chem. USSR (Engl. Transl.)*, 1976, **12**, 243-248, (*ms*)

Devi, S. *et al.*, *Acta Cienc. Indica, Chem.*, 1985, **11**, 273-276, (*synth, props*)

Federov, L.A. *et al.*, *Zh. Org. Khim.*, 1987, **23**, 2067-2072; *J. Org. Chem. USSR (Engl. Transl.)*, 1987, **23**, 2345-2350, (*cmr*)

Whitaker, A., *J. Soc. Dyers Colour.*, 1989, **105**, 267-268, (*cryst struct*)