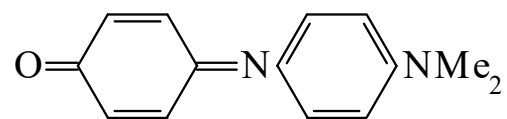




>>Entry Name: Phenol blue

Synonym(s): 4-[[4-(Dimethylamino)phenyl]imino]-2,5-cyclohexadien-1-one, 9Cl. *N,N*-Dimethylindoaniline. 1,4-Benzoquinone 4-(dimethylaminophenyl)anil



CAS Registry Number: 2150-58-5

Molecular Formula: C₁₄H₁₄N₂O

Molecular Weight: 226.277

Accurate Mass: 226.110613

Percentage Composition: C 74.31%; H 6.24%; N 12.38%; O 7.07%

Use/Importance: Used as redox indicator

Melting Point: Mp 133-134°

Solubility: Sol. H₂O

pKa Value: pK_{a1} 5.96; pK_{a2} 9.89 (30°)

Other Data: λ_{max} 608 nm; E° + 0.677 V (30°). Hygroscopic

Aldrich: 23560-1

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 962D, (ir)

Schwarzenbach, G. *et al.*, *J.A.C.S.*, 1938, **66**, 1667

Bishop, E., *Indicators*, Pergamon, Oxford, 1972

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, DPS600