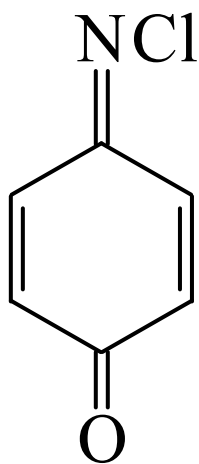




>>Entry Name: 4-(Chloroimino)-2,5-cyclohexadien-1-one, 9Cl

Synonym(s): 1,4-Benzoquinone chloroimine



CAS Registry Number: 637-61-6

Molecular Formula: C₆H₄ClNO

Molecular Weight: 141.556

Accurate Mass: 140.998141

Percentage Composition: C 50.91%; H 2.85%; Cl 25.04%; N 9.89%; O 11.30%

Use/Importance: Reagent for the photometric detn. of drugs; used as a 0.34mM soln. in DMSO for fluorimetric detn. of CN⁽⁻⁾

Physical Description: Yellow cryst. (petrol)

Melting Point: Mp 86°

Solubility: Spar. sol. cold H₂O; sol. hot H₂O, EtOH, Et₂O, C₆H₆, CHCl₃

References:

Bamberger, E. *et al.*, *Ber.*, 1898, **31**, 1522, (*synth*)

Willstatter, R. *et al.*, *Ber.*, 1904, **37**, 1494, (*synth*)

Guilbault, G.G. *et al.*, *Anal. Chem.*, 1965, **37**, 1395, (*detn. CN⁽⁻⁾*)

Artemchenko, S.S. *et al.*, *Zh. Anal. Khim.*, 1989, **44**, 1684; *CA*, **112**, 25788g, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CHQ500