



>>Entry Name: 5-Hydroxy-1*H*-indole-2,3-dione, 9CI

Synonym(s): 5-Hydroxyisatin

Molecular Formula: C₈H₅NO₃

Molecular Weight: 163.132

Accurate Mass: 163.026944

Percentage Composition: C 58.90%; H 3.09%; N 8.59%; O 29.42%

Melting Point: Mp 360°

>>Derivative: *N*-Ac

Molecular Formula: C₁₀H₇NO₄

Molecular Weight: 205.17

Accurate Mass: 205.037509

Percentage Composition: C 58.54%; H 3.44%; N 6.83%; O 31.19%

Physical Description: Red prisms or needles (CHCl₃/petrol)

Melting Point: Mp 144-145°

Solubility: Sol. Me₂CO, C₆H₆, CHCl₃, AcOH

>>Derivative: Anil

Physical Description: Orange needles (pentanol)

Melting Point: Mp 223°

Solubility: Sol. Me₂CO, CHCl₃, AcOH

>>Derivative: Me ether

Synonym(s): 5-Methoxy-1*H*-indole-2,3-dione. 5-Methoxyisatin

CAS Registry Number: 39755-95-8

Molecular Formula: C₉H₇NO₃

Molecular Weight: 177.159

Accurate Mass: 177.042594

Percentage Composition: C 61.02%; H 3.98%; N 7.91%; O 27.09%

Physical Description: Red-brown powder

Melting Point: Mp 201-202°

Solubility: Sol. Me₂CO, AcOH, mod. sol. EtOH, EtOAc

Hazard & Toxicity: LD₅₀ (mus, ipr) 658 mg/kg

References:

Halberkann, J., *Ber.*, 1921, **54**, 3087

Hartmann, M. *et al.*, *Helv. Chim. Acta*, 1936, **19**, 1327

Ferber, E. *et al.*, *J. Prakt. Chem.*, 1940, **155**, 234