

Indigo Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Indigo

Catalog No.: CFN99992

Cas No.: 482-89-3

Purity: >=98%

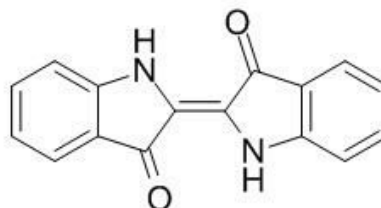
M.F: C₁₆H₁₀N₂O₂

M.W: 262.26

Physical Description: Powder

Synonyms: 2-(1,3-Dihydro-3-oxo-2H-indol-2-ylidene)-1,2-dihydro-3H-indol-3-one;

2,2'-Bis(2,3-dihydro-3-oxoindolylidene).



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The leaves of *Isatis indigotica* Fortune.

[Biological Activity or Inhibitors]

Indigo and indirubin are potent aryl hydrocarbon receptor ligands present in human urine, the endogenous levels and potencies of indirubin and indigo are such that they activate aryl hydrocarbon receptor (AhR) -mediated signaling mechanisms in vivo .^[1]

Using indigo dye and synergistic halide additives can inhibit mild steel corrosion in sulphuric acid .^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Methanol-water =75:25 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 289 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Adachi J, Mori Y, Matsui S, *et al. J. Biol. Chem.*, 2001, 276(34):31475-8.

[2] Oguzie E E, Unaegbu C, Ogukwe C N, *et al. Mater. Chem. Phys.*, 2004, 84(2-3): 363-8.

[3] Hou H C, Liang S Z. *Zhong Yao Cai*. 2006,29(7):681-2.

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