



CERTIFICATE OF ANALYSIS

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1. Identification

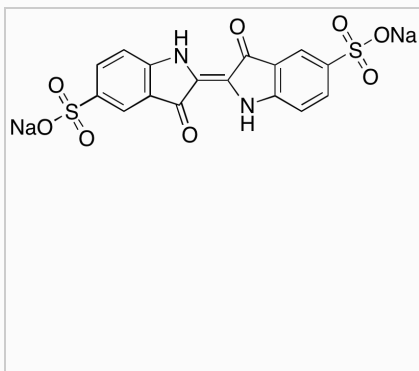
Catalogue Number: I521353

CAS Number: 860-22-0

Synonym: C.I. Acid Blue 74; 2-(1,3-Dihydro-3-oxo-5-sulfo-2H-indol-2-ylidene)-2,3-dihydro-3-oxo-1H-indole-5-sulfonic Acid Disodium Salt; 12070 Blue; 1311 Blue; 5,5'-Indigodisulfonic Acid Disodium Salt; A.F. Blue No. 2; Acid Blue 74; Acid Blue W; Acid Leather Blue IC; Airedale Blue IN; Amacid Brilliant Blue; Aniline Carmine Powder; Ariavit Indigo Carmine; Atul Indigo Carmine; Basovit Blue 665E; Blue 2; Blue No. 2; Bucacid Indigotine B; C.I. 73015; C.I. 75781; C.I. Food Blue 1; C.I. Natural Blue 2; Canacert

Product: Indigo Carmine

Structure:



Molecular Formula:

C₁₆H₈N₂Na₂O₈S₂

Molecular weight:

466.35

Source of Product:

N/A

Solubility:

DMSO (Slightly), Water (Slightly)

Lot Number: 711825452-6-1

Purity: 97%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 36.72, %H: 2.22, %N: 5.17
MS	Conforms to Structure	Conforms
Appearance	Dark Blue to Black Solid	Very Dark Blue to Black Solid
Sodium Content	Report Result	9.98% by Ion Chromatography
UV Absorbance	Report Result	193 nm, 204 nm, 252 nm, 287 nm, 609 nm

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Sarbjit Kaur	Toni Rantanen	Chanell Chu	6/21/2023	6/19/2027
				