



CERTIFICATE OF ANALYSIS

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1. Identification

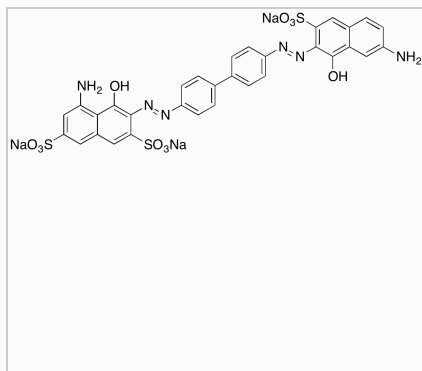
Catalogue Number: D494985

CAS Number: 2429-73-4

Product: Direct Blue 2 (Technical Grade)

Synonym: 2,7-Naphthalenedisulfonic acid, 5-amino-3-[2-[4'-[2-(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)diazenyl][1,1'-biphenyl]-4-yl]diazenyl]-4-hydroxy-, sodium salt (1:3); 2,7-Naphthalenedisulfonic acid, 5-amino-3-[[4'-[(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)azo][1,1'-biphenyl]-4-yl]azo]-4-hydroxy-, trisodium salt (9CI); C.I. Direct Blue 2 (7CI); C.I. Direct Blue 2, trisodium salt (8CI); Direct Diazo Black S (6CI); Airedale Black BHD; Aizen Direct Black BH; Altazine Black BH; Amanil Developed Black

Structure:



Molecular Formula:

$C_{32}H_{21}N_6Na_3O_{11}S_3$

Molecular weight:

830.71

Source of Product:

N/A

Solubility:

DMSO (Slightly), Water (Slightly)

Lot Number: 2-MXZ-85-1

Purity: Technical Grade

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Dark Blue to Black Solid	Very Dark Blue Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
UV Absorbance	Report Result	236 nm, 310 nm, 571 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 $\pm 2\%$. 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

Nicole Yip



Reviewed By

Toni Rantanen



**C of A Approved
By**

Christina Gouliaras



Test Date

11/9/2023

Retest Date

11/7/2027