



CERTIFICATE OF ANALYSIS

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1. Identification

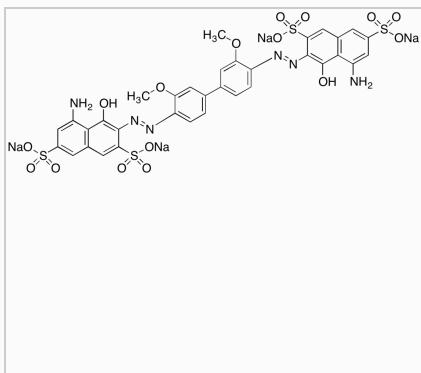
Catalogue Number: D493768

CAS Number: 2429-74-5

Product: Direct Blue 15 (Technical Grade)

Synonym: 3,3'-(3,3'-Dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)bis[5-amino-4-hydroxy-2,7-naphthalenedisulfonic Acid Tetrasodium Salt; Cartasol Blue 2GF;

Structure:



Molecular Formula:

C₃₄H₂₄N₆Na₄O₁₆S₄

Molecular weight:

992.8

Source of Product:

N/A

Solubility:

DMSO (Slightly), Water (Slightly)

Lot Number: 4-FGD-55-1

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	Very Dark Blue to Black Solid	Very Dark Blue to Black Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
FT-IR	Conforms to Structure	Conforms
UV Absorbance	Report Result	207 nm, 319 nm, 598 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	Reviewed By	C of A Approved By	Test Date	Retest Date
Swathi Reddy	Toni Rantanen	Chanell Chu	1/16/2023	1/14/2027