



CERTIFICATE OF ANALYSIS

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1. Identification

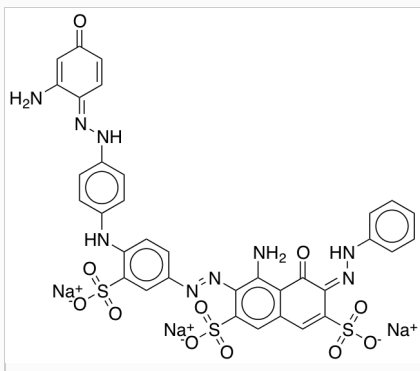
Catalogue Number: D494820

CAS Number: 85631-88-5

Product: Direct Black 168 (tech grade)

Synonym: 4-amino-3-[2-[4-[[4-[2-(2-amino-4-hydroxyphenyl)diazenyl]phenyl]amino]-3-sulfophenyl]diazenyl]-5-hydroxy-6-(2-phenyldiazenyl)-2,7-Naphthalenedisulfonic acid sodium salt; 4-amino-3-[[4-[[4-[(2-amino-4-hydroxyphenyl)azo]phenyl]amino]-3-sulfophenyl]azo]-5-hydroxy-6-(phenylazo)-2,7-Naphthalenedisulfonic acid trisodium salt; C.I. 335475; C.I. Direct Black 168; Coriacide Black SB; Derma Carbon NBS; Direct Black H 8F-SF-VP132; Direct Black HEF Liq.; Direct Black HEF-SF; Duas

Structure:



Molecular Formula:

$C_{34}H_{27}N_9Na_3O_{11}S_3$

Molecular weight:

902.8

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

Lot Number: 5-CAL-67-1

Purity: Technical Grade

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:
MS	Conforms to Structure	Conforms
UV Absorbance	Report Result	203 nm, 472 nm, 602 nm
Appearance	Black Solid	Black Solid

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
Henry Tieu	Toni Rantanen	Chanell Chu	11/15/2022	11/13/2026