

Certificate of Analysis

Product Name: SODIUM NITROPRUSSIDE DIHYDRATE
puriss. p.a., ACS reagent, >= 99.0 % AT
Product Number: 71778
Product Brand: Sigma-Aldrich
Molecular Formula: $C_5FeN_6Na_2O \cdot 2H_2O$
Molecular Mass: 297.95
CAS Number: 13755-38-9

TEST	SPECIFICATION	LOT 1416540 RESULTS
APPEARANCE (COLOR)	RED-BROWN TO DEEP RED-BROWN	DEEP RED-BROWN
APPEARANCE (FORM)	CRYSTALS TO CRYSTALLINE CHUNKS	CRYSTALLINE CHUNKS
ARGENTOMETR. TITRATION	99.0 - 101.0 %	99.0 %
SOLUBILITY (COLOR)	RED-BROWN TO DEEP RED-BROWN	DEEP RED-BROWN
SOLUBILITY (TURBIDITY)	CLEAR TO FAINTLY TURBID (< 29.0 NTU)	FAINTLY TURBID (12.6-29.0 NTU)
SOLUBILITY (METHOD)	--	1G IN 10 ML H2O
ACS SPECIFICATIONS	CORRESPONDS TO REQUIREMENTS	CORRESPONDS TO ACS (10TH ED.)
CALCIUM TRACES (F-AAS)	≤ 10 MG/KG	< 10 MG/KG
CADMIUM TRACES (F-AAS)	≤ 5 MG/KG	< 5 MG/KG
COBALT TRACES (F-AAS)	≤ 5.0 MG/KG	< 5 MG/KG
CHROMIUM TRACES (F-AAS)	≤ 50 MG/KG	< 20 MG/KG
COPPER TRACES (F-AAS)	≤ 5 MG/KG	< 5 MG/KG
POTASSIUM TRACES (F-AAS)	≤ 3000 MG/KG	< 2000 MG/KG
MAGNESIUM TRACES (F-AAS)	≤ 5 MG/KG	< 5 MG/KG
MANGANESE TRACES (F-AAS)	≤ 5 MG/KG	< 5 MG/KG
NICKEL TRACES (F-AAS)	≤ 5 MG/KG	< 5 MG/KG
LEAD TRACES (F-AAS)	≤ 5 MG/KG	< 5 MG/KG
ZINC TRACES (F-AAS)	≤ 50 MG/KG	< 10 MG/KG
CHLORIDE (CL)	≤ 100 MG/KG	< 100 MG/KG

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SULFATE (SO₄)	≤ 100 MG/KG	< 100 MG/KG
TRACES OF HEXACYANOFERRAT (II)	≤ 200 MG/KG	< 200 MG/KG
TRACES OF HEXACYANOFERRAT (III)	≤ 100 MG/KG	< 100 MG/KG
QC RELEASE DATE	28/NOV/08	
RECOMMENDED RETEST DATE	OCT/14	



Edeltraud Schwärzler, Manager
Quality Control
Buchs, Switzerland

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