

Certificate of Analysis

Product Name:

Sodium diethyldithiocarbamate trihydrate - ACS reagent, for the determination and separation of heavy metals, $\geq 97\%$

Product Number: 71480

Batch Number: BCCN2823

Brand: SIAL

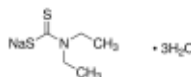
CAS Number: 20624-25-3

Formula: $C_5H_{10}NNaS_2 \cdot 3H_2O$

Formula Weight: 225,31 g/mol

Quality Release Date: 21 MAY 2025

Recommended Retest Date: OCT 2028



Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder or Crystals	Crystals
Titration with $HClO_4$	$\geq 97.0\%$	98.5 %
> = 99.0 % (Calculated on Dry Substance)		
Solubility (Color)	Colorless to Light Yellow	Colorless
Solubility (Turbidity)	Clear to Very Slightly Hazy	Clear
1g in 10ml Water		
Water		23.4 %
23.90 % (Theory)		
Sulphated Ash	30.5 - 32.5 %	30.7 %
Carbon Content		26.90 %
26.66 % (Theory)		
Hydrogen Content		7.05 %
7.16 % (Theory)		
Nitrogen Content		6.30 %
6.22 % (Theory)		
1H NMR Spectrum	Conforms to Structure	Conforms
Meets ACS Requirements	Corresponds to Requirements	Corresponds
Metal Trace Analysis (ICP)	Corresponds to Requirements	Pass
Cadmium (Cd)	≤ 5 mg/kg	< 5 mg/kg
Cobalt (Co)	≤ 5 mg/kg	< 5 mg/kg
Chromium (Cr)	≤ 5 mg/kg	< 5 mg/kg
Copper (Cu)	≤ 5 mg/kg	< 5 mg/kg
Iron (Fe)	≤ 5 mg/kg	< 5 mg/kg

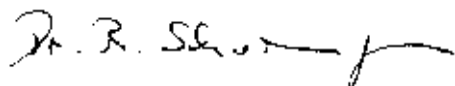
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Test	Specification	Result
Manganese (Mn)	≤ 5 mg/kg	< 5 mg/kg
Nickel (Ni)	≤ 5 mg/kg	< 5 mg/kg
Lead (Pb)	≤ 5 mg/kg	< 5 mg/kg
Zinc (Zn)	≤ 5 mg/kg	< 5 mg/kg



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

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