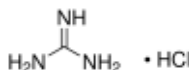


Certificate of Analysis

Product Name:

Guanidine hydrochloride - ≥99.0% (AT)

Product Number: 50940
Batch Number: WXB8477V
Brand: SIGMA
CAS Number: 50-01-1
Formula: CH₅N₃ · HCl
Formula Weight: 95,53 g/mol
Quality Release Date: 28 JUN 2022



Test	Specification	Result
Appearance (Colour)	Colorless or White	White
Appearance (Form)	Powder or Crystals	Crystals
Solubility (Colour)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
2.9 g in 5 mL H ₂ O(6 M) (< 3.5NTU)		
Infrared Spectrum	Conforms to Structure	Conforms
Argentometr. Titration	99.0 - 101.0 %	100.7 %
Sulfated Ash	≤ 0.1 %	< 0.1 %
Metal Trace Analysis (ICP)	Corresponds to Requirements	Corresponds
Calcium (Ca)	≤ 20 mg/kg	7 mg/kg
Cadmium (Cd)	≤ 5 mg/kg	< 5 mg/kg
Cobalt (Co)	≤ 5 mg/kg	1 mg/kg
Chromium (Cr)	≤ 5 mg/kg	< 5 mg/kg
Copper (Cu)	≤ 5 mg/kg	< 5 mg/kg
Iron (Fe)	≤ 5 mg/kg	1 mg/kg
Potassium (K)	≤ 50 mg/kg	12 mg/kg
Magnesium (Mg)	≤ 5 mg/kg	0 mg/kg
Manganese (Mn)	≤ 5 mg/kg	0 mg/kg
Sodium (Na)	≤ 50 mg/kg	9 mg/kg
Nickel (Ni)	≤ 5 mg/kg	1 mg/kg
Lead (Pb)	≤ 5 mg/kg	< 5 mg/kg
Zinc (Zn)	≤ 5 mg/kg	< 5 mg/kg
Total Sulfur as SO ₄	≤ 50 mg/kg	10 mg/kg

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: 50940
Batch Number: WXBD8477V



Leo Lv
Quality Manager
Wuxi, China CN

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