Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs

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Certificate of Analysis

Zinc Sulfate Heptahydrate ACS

Catalog Number: ZS1002
Lot Number: 0803801
CAS Number: 7446-20-0
Molecular Formula: $ZnSO_4 \cdot 7H_2O$
Molecular Weight: 287.56
Storage: 15°C – 30°C
Date of Manufacture: July 22, 2017
Retest Date: July 21, 2022

Test	Specification	Result
Appearance	Colorless efflorescent crystals	Conforms
Assay	99.0 – 103.0%	100.8%
Melting Point	~100°C	101.0°C
Solubility (96g/100mL H_2O)	Clear & colorless	Conforms
pH (5%)	4.4 – 6.0	5.08
Insoluble Matter	≤ 0.01%	0.003%
Ammonium	≤ 0.001%	< 0.001%
Chloride	≤ 5ppm	< 5ppm
Nitrate	≤ 0.002%	< 0.002%
Calcium	≤ 0.005%	0.0007%
Iron	≤ 0.001%	0.0006%
Lead	≤ 4mg/kg	1.7mg/kg
Magnesium	≤ 0.005%	0.0002%
Manganese	≤ 3ppm	2ppm
Potassium	≤ 0.01%	0.0033%
Sodium	≤ 0.05%	0.0004%

Approved by: Date: August 7, 2018

John Grubb

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For research purposes only. Not for drug or clinical use in humans or human food additive use.