



Certificate of Analysis

Guanidine Thiocyanate

Catalog Number: GT1001
Lot Number: 1102801
CAS Number: 593-84-0
Synonym(s): Guanidinium rhodanide, Guanidinium thiocyanate
Molecular Formula: $\text{CH}_5\text{N}_3\cdot\text{HSCN}$
Molecular Weight: 118.16
Storage: 15°C – 30°C
Date of Manufacture: June 15, 2017
Retest Date: June 14, 2020

Test	Specification	Result
Appearance	White to off-white crystalline powder	Conforms
Assay		
Argentometric Titration	≥ 99.0%	99.6%
Ion Chromatography	≥ 99.5%	99.5%
FTIR	To match standard	Conforms
Melting Point	118.0° to 121.0°C	119.5°C – 120.5°C
Solubility (20% in Acetone)	Colorless, ≤ 1.0% precipitate	0.03%
Solubility (35% in H ₂ O)	Colorless and clear	Conforms
pH (1% in H ₂ O)	5.0 to 7.0	5.8
Moisture (KF)	≤ 0.5%	0.25%
Ash	≤ 0.5%	0.03%
Chloride	≤ 1.0%	0.0011%
Cobalt	≤ 5ppm	< 5ppm
Iron	≤ 5ppm	1ppm
DNase I (35% in H ₂ O)	≤ 2U/L	None detected
RNase (35% in H ₂ O)	≤ 0.15U/L	None detected

Approved by:

John Grubb, PhD
Gojira Fine Chemicals, LLC
Quality Manager
Tel: 440-539-7033 Fax: 888-211-5523
john@gojiraafc.com

Date: November 2, 2018