



Certificate of Analysis

Spermidine Trihydrochloride

Catalog Number: ST1015
Lot Number: 1010602
CAS Number: 334-50-9
Synonym(s): N-(3-Aminopropyl)-1,4-butanediamine trihydrochloride
Molecular Formula: $C_7H_{19}N_3 \cdot 3HCl$
Molecular Weight: 254.63
Storage: 15°C – 30°C
Date of Manufacture: August 2, 2016
Retest Date: August 1, 2018

Test	Specification	Result
Appearance	White to off-white crystalline powder	Conforms
Assay (Titration)	99.0 – 101.0%	99.9%
Identification (FTIR)	To match reference spectrum	Conforms
Melting Point	$\geq 250^{\circ}C$	267°C
Solubility (100mg/mL)	Clear & colorless to slight color	Conforms
pH	3.0 – 6.0	4.2
Moisture (KF)	$\leq 1.0\%$	0.16%

Approved by:

Date: October 10, 2016

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