



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

Certificate of Analysis

Catalogue Number MB1015
Product **1,4-Dithio-DL-threitol**

Lot Number 000310-55255
DTT
Cleland's reagent

CAS Number 3483-12-3, 27565-41-9
Molecular Formula $C_4H_{10}O_2S_2$

Molecular Weight 154.24

Appearance White crystals or free flowing powder
Solubility Clear and colorless solution (10% solution in water)
Melting Point 40 - 44 °C
Infrared Spectrum Conforms to structure
UV Ratios
1% Solution :
A₂₈₀ : 0.011
A₃₀₅ : 0.005
0.02 M Solution :
A₂₈₃ : < 0.040
1M Neutral Solution :
A₄₀₀ : 0.024
A₄₀₅ : 0.024
OD 700-500 nm : 0.018

Loss on Drying < 0.5%
Assay by titration > 99%
Purity by TLC One spot
Storage Store at 0 - 8 °C
Additional Information Oxidized DTT : < 0.5%

Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and Approved by:
Sujata Moton
Sujata Moton
VP