



# 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](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## Certificate of Analysis

Catalogue Number MB1015  
Lot Number 000310-48748  
Product **1,4-Dithio-DL-threitol**

DTT

Cleland's reagent

CAS Number 3483-12-3, 27565-41-9

Molecular Formula  $C_4H_{10}O_2S_2$

Molecular Weight 154.24

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Appearance White crystals  
Solubility Clear and colorless solution (10% solution in water)  
Melting Point 41 - 43 °C  
Infrared Spectrum Conforms to structure  
UV Ratios  
1% Solution:  $A_{280}$ : 0.033  
 $A_{305}$ : 0.015  
0.02 M Solution:  $A_{283}$ : 0.015  
1M Neutral Solution:  $A_{400}$ : 0.034  
 $A_{405}$ : 0.032  
OD 700 - 500 nm: 0.020  
Loss on Drying 0.03%  
Assay by titration 99.3%  
Purity by TLC Single spot  
Storage Store at 0-8 °C  
Additional Information Oxidized DTT: 0.26%

Prepared by:  
*Ramesh Mandadi*  
Ramesh Mandadi  
Director of Operations

Reviewed and approved by:  
*Sujata Moton*  
S. Moton  
VP