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Certificate of Analysis

Catalogue Number MB1015
Lot Number 000310-55517
Product **1,4-Dithio-DL-threitol**

DTT

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

Molecular Formula $C_4H_{10}O_2S_2$

Molecular Weight 154.24

Appearance	White crystals
Solubility	Clear and colorless solution (10% solution in water)
Melting Point	40 - 44 °C
Infrared Spectrum	Conforms to structure
UV Ratios	1% Solution : A ₂₈₀ : 0.031 A ₃₀₅ : 0.015 0.02 M Solution : A ₂₈₃ : < 0.040 1M Neutral Solution : A ₄₀₀ : 0.022 A ₄₀₅ : 0.021 OD 700-500 nm : 0.015
Loss on Drying	< 0.50%
Assay by titration	> 99% (Iodometric)
Purity by TLC	One spot
Storage	Store at 0 - 8 °C
Additional Information	Oxidized DTT : < 0.50%

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