

# Chem-Impex International, Inc.

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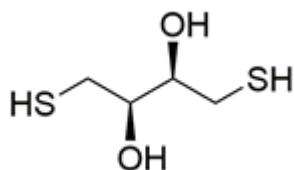
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Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191



## Product Specifications

Catalogue Number	37452
Product	<b>1,4-Dithio-DL-threitol</b> DTT Cleland's reagent
CAS Number	3483-12-3, 27565-41-9
Molecular Formula	C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight	154.24

Warnings	<i>Irritant!</i>
Synonym 3	<i>threo</i> -1,4-Dimercapto-2,3-butanediol
Appearance	White crystals or free flowing powder
Solubility	Clear and colorless solution in 10% water
Melting Point	40 - 44 °C
Infrared Spectrum	Conforms to structure
UV Ratios	1% Solution , A 280 : ≤ 0.067 A 305 : ≤ 0.050 0.02 M solution , A 283 : ≤ 0.040 1 M Neutral solution , A 400 : ≤ 0.062 A 405 : ≤ 0.062 OD 700 - 500 nm : < 0.035
Loss on Drying	≤ 0.50%
RNase, DNase, Protease	Not detected
Assay by titration	≥ 99% (Iodometry)
Purity by TLC	One spot
Grade	Molecular Biology Grade
Application	Reagent for the quantitative reduction of disulfide group. Prevents the oxidation of cholecystinin during its extraction from brain and duodenal tissues. Cleavage of disulfide bonds in proteins.
Storage	Store at 0 - 8 °C
Additional Information	% Oxidized DTT : ≤ 0.50%

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**For Laboratory Use Only**