

Product Specifications



SCIENTIFIC

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An ISO 9001 Certified Company

DTT-Dithiothreitol (Cleland's Reagent)

Product Number

IB21040

Size

5gm

CAS NO.

CAS#

3483-12-3

PHYSICAL SPECIFICATIONS

Molecular Formula	C ₄ H ₁₀ O ₂ S ₂
Molecular Weight	154.25
Moisture	Max. 0.5%
-SH Content	Min. 99.4%
-S-S Content	Max. 0.5%
Melting Point	41 ± 2°C
IR	Pass
Solubility (5%, water)	Clear and Colorless
A ₂₈₃ (0.02M, H ₂ O)	Max. 0.05

STORAGE

Store at -20°C. Warm to room temperature before opening. Keep tightly sealed. A DTT solution should be stored in small aliquots at -20°C. It is advisable that DTT solutions should be made fresh prior to each use.

Note: Do NOT autoclave DTT or solutions containing DTT!

RECOMMENDED USE

IBI's DTT is used in enzyme preparations to prevent formation of disulfides from sulfhydryl groups, thereby stabilizing the enzyme.

WARNING

Classification: Acute Toxicity (Oral) - 4
Skin Corrosion/Irritation - 2
Serious Eye Damage/Eye Irritation - 2
Specific Target Organ Toxicity (Single Exposure) - 3



WARNING!

Hazard Statements: H302-Harmful if swallowed • H315-Causes skin irritation • H319-Causes serious eye irritation

Precautionary Statements: P261-Avoid breathing dust/fume/gas/mist/vapors/spray • P264-Wash face, hands, and any exposed skin thoroughly after handling • P270-Do not eat, drink, or smoke when using this product • P271-Use only outdoors or in a well-ventilated area • P280-Wear protective gloves/protective clothing/eye protection/face protection • P301+P312-IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell • P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting • P302+P352-IF ON SKIN: Wash with plenty of water • P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing • P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. • P312-Call a POISON CENTER or doctor if you feel unwell • P321-Specific treatment (see supplemental first aid instructions on this label) • P330-Rinse mouth • P332+P313-If skin irritation occurs: Get medical advise/attention • P337+P313-If eye irritation occurs: Get medical advise/attention • P362-Take off contaminated clothing and wash before reuse • P403+P233-Store in a well-ventilated place. Keep container tightly closed • P405-Store locked up • P501-Dispose of contents/container to an approved waste disposal plant.

FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY

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