



# Product Specifications

## DTT Dithiothreitol (Cleland's Reagent)

<u>Catalog #</u>	<u>Size</u>
IB21040	5gm
IB21045	25gm

### Physical Specifications

CAS#	3483-12-3
Formula Weight	154.25
Molecular Formula	$C_4H_{10}O_2S_2$
-SH content	Min. 99.4%
$A_{283}$ (0.02M, H <sub>2</sub> O)	Max. 0.05
-S-S-content	Max. 0.5%
Melting Point	$41 \pm 2^\circ C$
IR	Pass
Moisture	Max. 0.5%
Solubility (5%, water)	Clear and Colorless

### Recommended Use

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

### Storage

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

**NOTE:** Do Not autoclave DTT or solutions containing DTT.

### Warning

Irritant. Causes irritation to eyes, skin, and mucous membranes. Avoid breathing dust. See Material Safety Data Sheet for additional information.