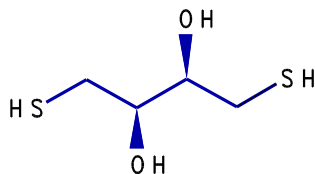




## SPECIFICATIONS

### DITHIOTHREITOL - MOLECULAR BIOLOGY GRADE



Catalogue Number	1365-MBG
CAS Registry Number	3483-12-3
Molecular Formula	C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight	154.25 g.mol <sup>-1</sup>
Melting Point	42 ∇ 2EC (Corr.)
I.R.	Consistent with assigned structure
Titration ex -SH (iodometric)	≧ 99.0%
T.L.C.	One Spot
UV Assays	
(1) 1% Solution	
A <sub>280</sub>	< 0.067
A <sub>305</sub>	< 0.050
(2) 0.02 M Solution	
A <sub>283</sub>	< 0.040
(3) 1 M Neutral Solution	
A <sub>400</sub>	< 0.062
A <sub>405</sub>	< 0.062
OD 700-500 nm	# 0.035
Loss on Drying	< 0.50%
Appearance	White crystals
10% Solution in Water	Clear and colorless
% Oxidized DTT	< 0.50%
Protease	None Detected
RNase	None Detected
DNase	None Detected
ICP-Metals Analysis	
Lead	# 5.00 ppm
Iron	# 5 ppm
Nickel	# 5.0 ppm
Copper	# 5.0 ppm
Zinc	# 50.0 ppm
Storage	2-8EC under Nitrogen