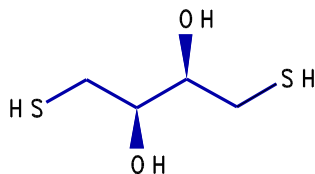


SPECIFICATIONS

DITHIOTHREITOL - MOLECULAR BIOLOGY GRADE



Catalogue Number	1365-MBG
CAS Registry Number	3483-12-3
Molecular Formula	C₄H₁₀O₂S₂
Molecular Weight	154.25 g.mol⁻¹
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 ₂₈₀	< 0.067
A ₃₀₅	< 0.050
(2) 0.02 M Solution	
A ₂₈₃	< 0.040
(3) 1 M Neutral Solution	
A ₄₀₀	< 0.062
A ₄₀₅	< 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	2-8°C under Nitrogen