


Description:

Excellent reagent for maintaining SH groups in reduced state; quantitatively reduces disulfides. DTT is effective in sample buffers for reducing protein disulfide bonds prior to SDS-PAGE. DTT can also be used for reducing the disulfide bridge of the cross-linker N,N'-bis(acryloyl)cystamine to break apart the matrix of a polyacrylamide gel (Molecular Biology Grade)

Synonym	Cleland's Reagent, 2,3-Dihydroxybutane-1,4-dithiol, 1,4-Dithio-DL-threit(ol)
State of matter	Solid
Solubility (20°C)	1500 g/L (H ₂ O)
Melting point	42 - 44°C
Formula	C ₄ H ₁₀ O ₂ S ₂
M	154.25 g/mol
CAS-No.:	3483-12-3
EC-No.:	222-468-7
Storage:	2 - 8°C, under inert gas
Shipment:	ambient temperature
LGK:	10 - 13
Disposal:	3
Hazard pictogram(s)	
Hazard statement(s)	H302-H315-H319
Precautionary statement(s)	P302+P350-P305+P351+P338
Signal word	Warning
WGK:	1 Attention: Material is highly hygroscopic! Storage at 2°-8°C under inert gas! Open only under inert gas!

Specification

DNases/RNases/Proteases	not detectable
Assay (.)	min. 99.5 %
pH (0.1 M; H ₂ O; 20°C)	4.0 - 6.0
DTT (oxidized)	max. 0.5 %
Loss on drying	max. 0.5 %
A (1 cm/0.02 M in H ₂ O)	
283 nm	max. 0.05

Order Information

Prod. No.	Description	Quantity
CE9131	DTT	5 g
CE9132	DTT	10 g
CE9133	DTT	25 g