Glentham
LIFE SCIENCES

Product Datasheet

GC1199 - DL-Dithiothreitol, 99%

Product Details

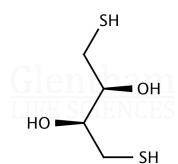|	
Product Name	DL-Dithiothreitol, 99%
Glentham Code	GC1199
CAS Number	3483-12-3
EINECS	222-468-7
MDL Number	MFCD00004877
Additional CAS	27565-41-9
PubChem SID	310270881
Related Categories	Carbohydrates, Biochemicals, Raw Materials (IVD), Reagents for PCR, Reagents for Gel Electrophoresis of DNA/RNA, Reagents for Gel Electrophoresis of Proteins, Reagents for Western Blotting

Structure

Molecular Weight	:	154.25
Molecular Formula	:	$C_4H_{10}O_2S_2$

Storage

Recommended storage temperature: +4°C.

Hazards and Transport

Not classified as dangerous for transport.

CLP Classification	Skin Irr. 2, Eye Irr. 2A, STOT SE 3, STOT SE 3, Acute Tox. 4
Signal Word	Warning
Hazard Codes	H315, H319, H335, H336, H302
Precautionary Codes	P305+P351+P338, P302+P352, P301+P312
Pictograms	

Glentham Product Specification

Physical Description	:	White to off-white powder
Solubility (5% in water)	:	Clear, colourless solution
Identification	:	IR
	:	TLC
Melting Point	:	42 - 44 °C
UV Absorbance (0.1M Solution)	:	500nm: ≤ 0.05
	:	280nm: ≤ 0.10
pH	:	4.00 - 6.00 (0.1M in water)
Loss on Drying	:	≤ 0.5%
Individual Impurity	:	Dihydroxydithiane: ≤ 0.4%
Assay (Iodimetry)	:	≥ 99.0%
Version	:	v1.0

About DL-Dithiothreitol, 99%

Dithiothreitol, DTT or Cleland"s reagent is a small-molecule redox reagent. In molecular biology it is used as a reducing agent, providing thiolated DNA with protection against dimerisation and therefore increasing the efficiency of coupling reactions. DTT is also used to reduce disulfide bonds in proteins, giving it a role in applications such as polyacrylamide gel electrophoresis.