

## Product Datasheet

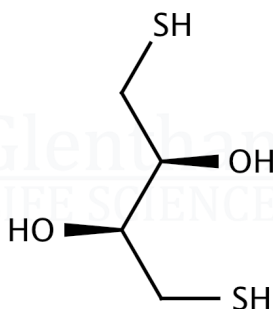
### GC1199 - DL-Dithiothreitol, 99%

#### Product Details

Product Name	DL-Dithiothreitol, 99%
Glenthams 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 <sub>4</sub> H <sub>10</sub> O <sub>2</sub> S <sub>2</sub>



#### 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



#### Glenthams 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.

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