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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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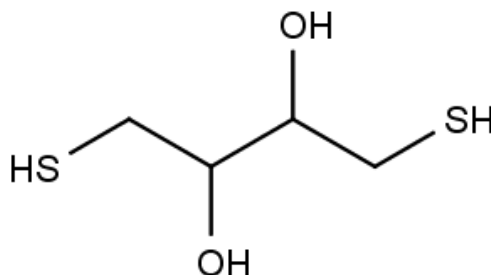
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Dithiothreitol (DTT)

Catalog No: 04010
Lot No: XXXXX
Cas No: 3483-12-3
Formula: C₄H₁₀O₂S₂
MW: 154.25
Supplied as: solid
Stability: store at +4°C



Background

DTT is an unusually strong reducing agent, because once oxidized, it forms a stable six-membered ring with an internal disulfide bond. The reduction usually does not stop at the mixed-disulfide species because the second thiol of DTT has a high propensity to close the ring, forming oxidized DTT and leaving behind a reduced disulfide bond. The reducing power of DTT is limited to pH values above 7, since only the negatively charged thiolate form -S⁻ is reactive (the protonated thiol form -SH is not); the pKa of the thiol groups is 9.2 and 10.1.

Tests

Appearance:
10% solution in water:
Melting point:
I.R.:
Titration ex -SH (iodometric):
T.L.C.:
UV assay (1% solution)
A₂₈₀
A₃₀₅
UV assay (0.02 M solution)
A₂₈₃
UV assay (1% solution)
A₄₀₀
A₄₀₅
OD 700 - 500 nm:
Loss on drying:
% oxidized DTT:

Specifications

white crystals
clear and colorless
42±2°C (Corr.)
consistent with assigned structure
≥99.0%
one spot
<0.067
<0.050
<0.040
<0.062
<0.062
≤0.035
<0.50%
<0.50%

Usage

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