

High Purity Grade

DL-Dithiothretiol (DTT)

Specifications

| CAS-Number: | 3483-12-3 |
|-----------------|--|
| Formula: | $C_4H_{10}O_2S_2$ |
| Formula weight: | 154.25 g/mol |
| Storage | Keep in refrigeration condition +2-8°C |

| Test | Specifications |
|---|---|
| Description | A white free flowing powder, hygroscopic |
| Solubility | Freely soluble in methanol and methylene chloride. |
| Clarity a) In water b) Sodium Acetate | 5% (w/v) solution in water is clear and colorless Clear and colorless |
| Identification by a) IR Spectrum | IR Spectrum of sample exhibits maxima at the same wavelengths as that of a similar preparation of reference compound. |
| b) TLC | R_{f} value of the sample is comparable with that of the standard |
| Melting Range | 41 ± 3°C |
| Related Substance b) UV Spectroscopy | Content of Oxidized DTT (Dihydroxydithiane) NMT 0.4% |
| UV Absorbance a) At 500nm b) At 280nm | Absorbance of 0.1M solution at 500nm NMT 0.035 Absorbance of 0.1M solution at 280nm NMT 0.100 |
| pH / Acidity | pH of 0.1M solution in water is between 4.0 and 6.0 |
| Assay (by lodimetry) | >99% |
| Loss on drying | <0.5% |

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