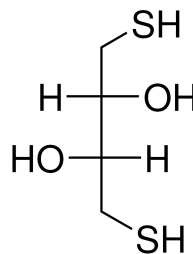


Certificate of Analysis

Product Name : DL-Dithiothreitol $\geq 98\%$ (HPLC), $\geq 99.0\%$ (titration)
Product Number : D0632-BULK
Batch Number : 0000450133
CAS Number : 3483-12-3
MDL Number : MFCD00004877
Storage Temperature : +2°C to +8°C
Molecular Formula : C₄H₁₀O₂S₂
Formula Weight : 154.25 g/mol
Recommended Retest Date : Jun 2029
Quality Release Date : 04 Jun 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless to Very Faint Yellow	Colorless
Solubility (Turbidity)	Clear	Clear
50 mg/ml, H ₂ O		
Titration with Iodine	$\geq 99.0\%$	99.2 %
Purity (HPLC)	$\geq 98\%$	100 %
Initial Melting Point	°C	40 °C
report result		
Final Melting Point	°C	41 °C
report result		
¹ H NMR Spectrum	Conforms to Structure	Conforms

Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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