

# Specification

Item number: 4175

## D(-)-Mannitol

≥98 %, Ph. Eur., USP, BP, for biochemistry

CAS No.: 69-65-8

print date: 01.01.2024

formula:  $C_6H_{14}O_6$

density:

molecular weight: 182,18 g/mol

### Guarantee analysis

Appearance	white, fine powder
Assay (HPLC, dry substance)	98.0-101.0 %
Identity	complies
Appearance of solution (10 %, H <sub>2</sub> O)	complies
Lead (Pb)	≤0.00005 %
Nickel (Ni)	≤0.0001 %
Heavy metals (as Pb)	≤0.0005 %
Sulphated ash	≤0.1 %
Reducing sugar	≤0.1 %
Loss on drying (105 °C)	≤0.3 %
Melting range	165-169 °C
Conductivity	≤20 µS/cm
Water	≤0.5 %
Microbiological assay	complies

### Related Substances:

Impurity A	≤2.0 %
Impurities B and C (sum)	≤2.0 %
Related substances (unspecific impurities)	≤1.0 %
Related substances (total)	≤2.0 %

Our products are tested for laboratory use only.

The stated information refers to the current status of product quality.

We reserve the right to implement necessary changes.

**Dr. R. Niemand**

Head of Quality Assurance

**S. Lorsee**

Head of Quality Management

*This document is computer printout and has therefore not been signed by hand.*

**Carl Roth GmbH + Co. KG**  
Schoemperlenstraße 3-5  
76185 Karlsruhe

Telefon 0721/5606-0  
Telefax 0721/5606-149  
E-Mail: [info@carlroth.de](mailto:info@carlroth.de)

Die Firma ist eine Kommanditgesellschaft mit Sitz in Karlsruhe, Reg. Gericht Mannheim HRA 100055. Persönlich haftende Gesellschafterin ist die Firma Roth Chemie GmbH mit Sitz in Karlsruhe, Reg. Gericht Mannheim HRB 100428. Geschäftsführer: André Houdelet

