



Product Specification

Product Name: D-GLUCOSE Monohydrate AR

Alternate Name(s) Dextrose Monohydrate

Description

Colourless crystals or white granular powder, with a sweet taste.

Properties

Chemical Formula: $C_6H_{12}O_6 \cdot H_2O$

Molecular Weight: 198.17

Product Code: GA017

CAS No. 5996-10-1

General Information:

Freely soluble in water, sparingly soluble in alcohol.

Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: None Allocated

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

Not classified as hazardous according to the criteria of ASCC.

Quality Specification

Assay: 99.5 - 100.5%

Specific Properties and Impurities [Typical levels]:

Melting point	82 - 84 °C
Specific optical rotation	+52.0° - +53.3°
Chloride (Cl)	≤ 0.02%
Sulfates (SO ₄)	≤ 0.02%
Sulfites (SO ₃)	≤ 0.002%
Residue on ignition	≤ 0.1%
Loss on drying	7.0-9.5%
Sulfated ash	≤ 0.1%
Arsenic (As)	≤ 0.0001%
Barium (Ba)	Passes test
Calcium (Ca)	≤ 0.02%
Lead (Pb)	≤ 0.00005%

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