



Product Specification

Product Name: SUCROSE AR

Alternate Name(s) Cane sugar; saccharose; table sugar; sugar; beet sugar; D(+)-saccharose;
Description beta-D-fructofuranosyl-alpha-D-glucopyranoside.
Hard white dry crystals or powder; sweet taste; odourless at room temp. Finely divided material is hygroscopic.

Properties

Chemical Formula: $C_{12}H_{22}O_{11}$
Molecular Weight: 342.3

Product Code: SA030
CAS No. 57-50-1

General Information:

Moderately soluble in glycerol. Slightly soluble in alcohol and methanol.
Incompatible with strong oxidisers and acids. Hydrolysed by dilute acids and invertase to the 'invert sugar'. Combustible.

Hazard and Safety Data

UN Group: None Allocated
Class: None Allocated
UN Number: None Allocated
Hazchem code: None Allocated
CS MSDS Code: 1CH6Z
Poison schedule: Not Scheduled
Emergency Procedure Guide No.:

Quality Specification

Assay:

Specific Properties and Impurities [Typical levels]:

Solubility in Water	1970 g/L (15°C)
Melting point	160-186°C (decomposes)
Specific Gravity	1.5877
Specific rotation	+63.3° - +66.8°
Insoluble matter	≤ 0.005%
Loss on drying	≤ 0.03%
Residue after ignition	≤ 0.01%
Titrate acid	≤ 0.0008 meq/g
Chloride (Cl)	≤ 0.005%
Sulfate and sulfite (as SO ₄)	≤ 0.005%
Heavy metals (as Pb)	≤ 0.0005%
Invert sugars	≤ 0.05%
Antimony (Sb)	≤ 0.00001%
Arsenic (As)	≤ 0.0001%
Cadmium (Cd)	≤ 0.00001%
Calcium (Ca)	≤ 0.001%
Chromium (Cr)	≤ 0.00005%
Copper (Cu)	≤ 0.0002%
Iron (Fe)	≤ 0.0005%
Lead (Pb)	≤ 0.00005%
Nickel (Ni)	≤ 0.00001%
Tin (Sn)	≤ 0.00002%
Zinc (Zn)	≤ 0.00005%

CONFORMS TO ACS

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