

Dextrose Monohydrate

Crystalline carbohydrate ingredient for qualified food, beverage and fermentation formulations.

CAS No. 5996-10-1	EC / List No. 611-920-2	Transport Non-dangerous goods
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Product Information

Crystalline carbohydrate ingredient for qualified food, beverage and fermentation formulations.

Specifications

Parameter	Specification
Appearance	White to almost-white crystalline powder
Solubility	Freely soluble in water; very slightly soluble in ethanol (96%)
Solution appearance	Clear; colour not more intense than reference solution BY7
Assay, anhydrous-substance basis	97.5–102.0 %
Conductivity	≤20 µS/cm
Maltose and isomaltose, sum	≤0.4 %
Maltotriose	≤0.2 %
Fructose	≤0.15 %
Unspecified impurities	≤0.10 %
Total related impurities	≤0.5 %
Dextrin	Substance dissolves completely
Sulfite	≤15 ppm
Aerobic plate count	≤100 CFU/g
Moulds and yeasts	≤30 CFU/g
E. coli	Negative

Grade-specific supply limits. The agreed specification and batch COA govern delivery.

Typical Properties

Property	Typical Value
Molecular formula	C ₆ H ₁₂ O ₆ ·H ₂ O
Molecular weight	198.17 g/mol

Applications

Food and beverage sweetening: Carbohydrate and sweetening ingredient for qualified food and beverage concepts.

Confectionery and bakery development: Ingredient for suitable confectionery and baked-goods formulations.

Fermentation formulation: Carbohydrate source for technically supervised fermentation development.

Packaging / Storage

Item	Information
Packing	25 kg kraft paper bags with PE liner
Storage	Store tightly closed in a cool, dry, well-ventilated place. Protect from moisture, excessive heat, direct sunlight and incompatible chemicals.
Handling	Provide effective ventilation during powder transfer. Wear suitable protective gloves, safety goggles and work clothing. Avoid airborne dust, ingestion and unnecessary skin or eye contact.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com