Inositol

$C_6H_{12}O_6$ · CAS 87-89-8 · Myo-inositol, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Myo-inositol, crystalline	$C_6H_{12}O_6$	87-89-8	99.0–101.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Myo-inositol specified at 99.0–101.0% by HPLC, for capsules, tablets and powder blends where the isomer and the assay method have to be on the label.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (myo-inositol)	99.0–101.0% (HPLC)	As stated
Appearance	White crystalline powder	As stated
Identification	IR conforms	As stated
Melting point	224–227 °C	As stated
Loss on drying	≤0.5%	As stated
Residue on ignition	≤0.1%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 40 mesh	As stated
Marker set	Myo-inositol (99.0–101.0%, HPLC)	Identity
Solubility	Freely soluble in water (about 0.5 M at 20 °C); solutions are clear and colourless.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Gummies and chews
- Functional beverages

AVAILABLE FORMS

- Crystalline powder, 40 mesh
- Milled to 80 mesh on request
- Granulated on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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