Betaine

$C_5H_{11}NO_2$ · CAS 107-43-7 · Betaine anhydrous, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Betaine anhydrous, crystalline	$C_5H_{11}NO_2$	107-43-7	97.5–102.5% (titration)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Anhydrous betaine specified at 97.5–102.5% by titration, for capsules, tablets and powder blends where the anhydrous form and the water content have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (anhydrous basis)	97.5–102.5% (titration)	As stated
Appearance	White crystalline powder	As stated
Identification	IR conforms	As stated
Loss on drying	≤2.0%	As stated
Residue on ignition	≤0.1%	As stated
pH (5% solution)	5.0–7.0	As stated
Particle size	≥95% through 30 mesh	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
Marker set	Betaine anhydrous (97.5–102.5%, titration)	Identity
Solubility	Freely soluble in water; the 5% solution is close to neutral (pH 5.0–7.0).	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Sports powders

AVAILABLE FORMS

- Crystalline powder, 30 mesh
- Milled to 60 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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