Vitamin B1

$C_{12}H_{17}ClN_4OS{\cdot}HCl$ · CAS 67-03-8 · Thiamine hydrochloride, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Thiamine hydrochloride, crystalline	$C_{12}H_{17}ClN_4OS{\cdot}HCl$	67-03-8	98.5–101.5% (titration)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Titration and HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Thiamine hydrochloride specified at 98.5–101.5% on the dried basis, for capsules, tablets and powder blends where the salt form and the water content have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	98.5–101.5% (titration)	As stated
Appearance	White or almost white crystalline powder	As stated
Identification	IR conforms	As stated
pH (2.5% solution)	2.7–3.3	As stated
Water (Karl Fischer)	≤5.0%	As stated
Sulfated ash	≤0.1%	As stated
Nitrate	Passes test	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	Thiamine hydrochloride (98.5–101.5%, dried basis)	Identity
Solubility	Freely soluble in water; the 2.5% solution is acidic (pH 2.7–3.3).	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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