N-Acetyl-L-Cysteine

$C_5H_9NO_3S$ · CAS 616-91-1 · N-acetyl-L-cysteine, crystalline

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
N-acetyl-L-cysteine, crystalline	$C_5H_9NO_3S$	616-91-1	98.5–101.5% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

N-acetyl-L-cysteine specified at 98.5–101.5% on the dried basis, for capsules and tablets where the acetylated form, the sulphur content and the water content have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	98.5–101.5% (HPLC)	As stated
Appearance	White crystalline powder	As stated
Identification	IR and thiol reaction conform	As stated
Specific rotation	+21.0° to +27.0° (dried basis)	As stated
Loss on drying	≤0.5%	As stated
Residue on ignition	≤0.1%	As stated
pH (1% solution)	2.0–3.0	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	N-acetyl-L-cysteine (98.5–101.5%, dried basis)	Identity
Solubility	Freely soluble in water; the 1% solution is acidic (pH 2.0–3.0).	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

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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