# L-Tyrosine

*$C_9H_{11}NO_3$ · CAS 60-18-4 · L-tyrosine, crystalline*

**CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION**

| CHEMICAL FORM | FORMULA | CAS | PRIMARY ASSAY |
|---|---|---|---|
| L-tyrosine, crystalline | $C_9H_{11}NO_3$ | 60-18-4 | 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

L-tyrosine specified at 99.0–101.0% on the dried basis, for capsules, tablets and powder blends where the low solubility, the rotation and the water content have to be declared.

## SPECIFICATION

| PARAMETER | SPECIFICATION | METHOD / NOTE |
|---|---|---|
| Assay (dried basis) | 99.0–101.0% (HPLC) | As stated |
| Appearance | White crystalline powder | As stated |
| Identification | IR and ninhydrin reaction conform | As stated |
| Specific rotation | −11.0° to −12.3° (dried basis, 1 N HCl) | As stated |
| Loss on drying | ≤0.5% | As stated |
| Residue on ignition | ≤0.1% | As stated |
| pH (saturated solution) | 5.0–7.0 | 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 | L-tyrosine (99.0–101.0%, dried basis) | Identity |
| Solubility | Sparingly soluble in water; soluble in dilute acid and alkali. | 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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