# Creatine HCl

*$C_4H_9N_3O_2 \cdot HCl$ · CAS 17050-09-8 · Creatine hydrochloride, powder*

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

| CHEMICAL FORM | FORMULA | CAS | PRIMARY ASSAY |
|---|---|---|---|
| Creatine hydrochloride, powder | $C_4H_9N_3O_2 \cdot HCl$ | 17050-09-8 | 99.0–101.0% |
| **METHOD** | **MINIMUM ORDER** | **LEAD TIME** | **STANDARD PACK** |
| HPLC and titration | 1 kg | 1–7 days | 1 kg foil pouch · 25 kg fiber drum |

## DESCRIPTION

Creatine hydrochloride specified at 99.0–101.0% by HPLC with 74.0–78.0% creatine; the hydrochloride and creatine monohydrate are different products with different solubility and fill weight.

## SPECIFICATION

| PARAMETER | SPECIFICATION | METHOD / NOTE |
|---|---|---|
| Assay (HPLC) | 99.0–101.0% | As stated |
| Creatine content | 74.0–78.0% | As stated |
| Appearance | White to off-white powder | As stated |
| Identification | HPLC and IR conform | As stated |
| Loss on drying | ≤1.0% | 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 80 mesh | As stated |
| Marker set | Creatine HCl 99.0–101.0%; creatine 74.0–78.0% | Identity |
| Solubility | Freely soluble in water; the solution is acidic. | Matrix dependent |

## APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

## AVAILABLE FORMS

- Powder, 80 mesh
- Granulated on request

## PACKING

- 1 kg foil pouch

## STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling.

- 25 kg fiber drum

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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