

Creatine Monohydrate

Creatine ingredient for qualified nutrition formulations and material evaluation.

CAS 6020-87-7	EC 200-306-6	Transport Non-dangerous goods; reference solid
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Product Information

Creatine monohydrate is the hydrated form of creatine. The supplied sheet specifies a minimum HPLC assay of 99.90%, a maximum loss on drying of 12% and trace-metal, sulfate and ignition-residue limits. Loss on drying includes the hydration-related contribution and is not renamed free moisture.

Specifications

Parameter	Specification	Method
Appearance	White crystalline powder	
Assay	≥99.90 %; HPLC	HPLC
Loss on drying	≤12.0 %	
Heavy metals, as Pb	≤10 ppm	
Arsenic	≤1 ppm	
Residue on ignition	≤0.1 %	
Sulfate	≤0.1 %	

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₄ H ₉ N ₃ O ₂ ·H ₂ O
Molecular weight (component)	149.15 g/mol

Applications

Nutrition formulation: Evaluate the monohydrate in qualified nutrition formulations using the required assay and impurity methods.

Powder blending: Assess particle handling, dispersion and blend uniformity in the intended powder system.

Incoming quality control: Compare HPLC assay, loss on drying and trace limits with the purchasing specification.

Packaging / Storage

Item	Information
Packaging	Cartons or drums with two inner polyethylene bags; net weight is agreed on the quotation.
Storage	Keep tightly closed in a cool, dry, ventilated place away from heat and direct sunlight. Separate from incompatible and contaminating materials; protect from rain and moisture.
Shelf life	Two years in intact original packaging under the stated storage conditions.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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