

Specification

Technical Data Sheet

CAS**5949-29-1****STORAGE****Ambient****MOLECULAR WEIGHT****210.14****PRODUCT****Citric acid monohydrate 99.5-100.5%**

Product number	90033207
CAS number	5949-29-1
Molecular formula	$\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O}$
Molecular weight	210.14 g/mol

PARAMETER**SPECIFICATION**

Appearance	Colourless crystals or granulars, white crystalline powders.
Assay	$\geq 99.5-100.5\%$
Heavy metals	$\leq 5\text{ppm}$
Identification	Passes test
Bacterial endotoxins	$\leq 0.5\text{IU/mg}$
Chloride (Cl-)	$\leq 50\text{ppm}$
Clarity and colour of solution	Passes test
Iron (Fe)	$\leq 5\text{ppm}$
Light Transmittance	$\geq 95.0\%$
Moisture	$\leq 8.8\%$
Organic Volatile Impurities	Passes test
Particle Size	8-80 mesh
Readily Carbonisable Substances	Not exceeding standard
Sulphated Ash	$\leq 0.05\%$
Water insoluble matter	Passes test
Aluminium (Al)	$\leq 0.2\text{ppm}$

PARAMETER	SPECIFICATION
Arsenic (As)	≤1ppm
Calcium (Ca)	≤200ppm
Lead (Pb)	≤0.5%
Mercury (Hg)	≤1ppm
Oxalate (Oxalic acid)	≤100ppm
Sulphates (SO₄)(2-)	≤150ppm
Tridodecylamine	Passes test

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

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