

## L-Arginine

**GRM038**

### Product Identifier

CAS No.	:	74-79-3
EC No.	:	200-811-1
Molecular Formula	:	C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight	:	174.20
HS Code	:	2925 29 90
Storage	:	Below 30°C
Shelf life	:	4 years

### Technical Specification

Appearance	:	White to almost white crystals or powder
Solubility	:	100 mg soluble in 1 mL of water
pH (5% in water at 25°C)	:	10.50 - 12.00
FTIR	:	Matches with the standard pattern
Specific rotation	:	+25.80° to +28.50° (c = 8% in 6N hydrochloric acid, at 20°C)
Melting range	:	217 - 227°C (dec.)
Chloride (Cl)	:	<= 0.05%
Ammonium (NH <sub>4</sub> )	:	<= 0.02%
Heavy metals (as Pb)	:	<= 0.0015%
Iron (Fe)	:	<= 0.003%
Sulfate (SO <sub>4</sub> )	:	<= 0.03%
Loss on drying (at 105°C, 3 hr)	:	<= 0.50%
Residue on ignition	:	<= 0.30%
Assay (NT/HCl Titration, on dry basis)	:	99.00 - 101.50%

### Safety Information

UN No.	:	Not dangerous goods
Class	:	-
Packing Group	:	-
RTECS	:	CF1934200
WGK	:	1