

Technical Information

L-Arginine

Plant Culture Tested

Product Code: PCT1302

Product Information

Product Code	: PCT1302
Product Name	: L-Arginine, Plant Culture Tested
Molecular Formula	: $C_6H_{14}N_4O_2$
Molecular Weight	: 174.20
CAS No.	: 74-79-3

Technical Specification

Appearance	: White to almost white crystals or crystalline powder.
Solubility	: 10% solution in water is clear and colourless.
Reaction	: Reaction of 0.5 M aqueous solution at 25°C.
pH	: 10.50 - 12.00
Cultural response	: Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2°C), Photoperiod Day: Night in hours (16:8)
Shoot culture	: No structural deformity observed, actively growing shoots, no toxicity to shoots
Callus culture	: No necrotic tissues, actively growing callus, no toxicity to callus
Chloride (Cl)	: ≤ 0.02%
Ammonium (NH ₄)	: ≤ 0.02%
Heavy metals (as Pb)	: ≤ 0.001%
Loss on drying	: ≤ 0.5%
Iron (Fe)	: ≤ 0.001%
Sulphate (SO ₄)	: ≤ 0.02%
Arsenic (As ₂ O ₃)	: ≤ 0.0001%
Residue on ignition	: ≤ 0.1%
Specific rotation (α 20/D)	: +26.9° to +27.9°
Minimum Assay (Non aqueous)	: 99.00 %

Risk and Safety Information

WGK	: --
RTECS	: --
Storage Temperature(°C)	: Store below 30°C

Transport Information

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods
IMDG	: Not Dangerous Goods
IATA	: Not Dangerous Goods



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Product Specification

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Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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Replace Date 27-Dec-2025