Product Specification

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Technical Information

L-Proline Plant Culture Tested

Product Code: PCT1317

Product Information

Product Code	: PCT1317
Product Name	: L-Proline, Plant Culture Tested
Synonym	: (S)-Pyrrolidine-2-carboxylic acid
Molecular Formula	: $C_5H_9NO_2$
Molecular Weight	: 115.13
CAS No.	: 147-85-3

Technical Specification

Appearance	: White to off-white solid or crystals or crystalline powder.
Solubility	: Soluble in water.
pH (10% in water at 25°C)	: 5.00 - 7.00
Cultural response	: Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2ºC), 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
Melting range	: ~228°C (dec.)
Specific rotation (α) $^{25}_{D}$ (c = 4% in water)	: -84.0° to -86.0°
Heavy metals (as Pb)	: <= 0.002%
Arsenic (As)	: <= 0.0003%
Loss on drying (105°C, 3 hrs)	: <= 0.3%
Residue on ignition	: <= 0.1%
Minimum assay (NT, on dry basis)	: 99.00 %

Risk And Safety Information

WGK	: 1
RTECS	: TW3584000
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

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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- Do not use the products if it fails to meet specifications for identity and performance parameters.