# Product Information

## PCT0202 Calcium-D-pantothenate

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<tr>
<th>Product Number</th>
<th>Packing</th>
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<tbody>
<tr>
<td>PCT0202</td>
<td>100G</td>
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<tr>
<td>PCT0202</td>
<td>25G</td>
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## Product Information

- **Product Code**: PCT0202
- **Product Name**: Calcium-D-pantothenate
- **Synonym**: D-Pantothenic acid hemicalcium salt
- **Molecular Formula**: C_{9}H_{16}O_{5}N \cdot \frac{1}{2}Ca
- **Molecular Weight**: 238.27
- **CAS No.**: 137-08-6
- **EC No.**: 205-278-9
- **HS Code**: 2936 24 00
- **Shelf Life**: 3 years

## Technical Specification

- **Appearance**: White to off-white crystals or powder
- **Solubility**: 100 mg soluble in 1 mL of water
- **pH (5% solution at 25°C)**: 6.80 - 8.00
- **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
- **Specific rotation \([\alpha 20/D]\)**: +25.0 to +27.5°(c=5% in H2O)
- **FTIR (KBr disc)**: Matches with the standard pattern
- **Melting range**: ~190°C
- **Loss on drying (at 105°C)**: <= 5%
- **Assay (NT/HPLC, on dry basis)**: 98.00 - 101.00 %

## Risk and Safety Information

- **WGK**: 1
- **RTECS**: RU4375000
- **Storage Temperature(°C)**: Store at 2 - 8°C

## Transport Information

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