PRODUCT DATA SHEET PAU-SA-PHA-USP-1203-V1

IDENTIFICATION
CAS: 69-72-7
EINECS: 200-712-3

SYNONYMS
2-hydroxybenzoic acid
orthohydroxybenzoic acid

EMPIRICAL FORMULA
C₇H₆O₃

MOLECULAR WEIGHT
M₀ = 138.12

PHYSICO-CHEMICAL PROPERTIES
A white, crystalline powder or white or colourless, acicular crystals. Not hygroscopic.
Tapped density (d₁/250) ............................................ 0.70 to 0.80 g/ml
Poured density (d₀) .................................................... 0.40 to 0.50 g/ml
Sublimation point ..................................................... from 76°C
Solubility at 20°C
   Ethanol .............................................................. Freely soluble
   Chloroform, methylene chloride ......................... Sparingly soluble
   Benzene, water .................................................... Slightly soluble

APPLICATIONS
- Pharmaceutical applications: salicylic acid is a keratolytic agent (mostly used in creams, ointments and shampoos).
- Chemical synthesis: starting material for the synthesis of active pharmaceutical ingredients, antiseptic agents, fragrance chemicals, etc
- Food industry (preservative)
- Personnel care applications: cosmetics

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Tests</th>
<th>Limit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting range (capillary)</td>
<td>158 to 161°C</td>
<td>USP</td>
</tr>
<tr>
<td>Assay (dry basis)</td>
<td>99.5 to 101.0 %</td>
<td>USP</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>0.5% maximum</td>
<td>Karl Fischer (1)</td>
</tr>
<tr>
<td>Chloride</td>
<td>0.014 % maximum</td>
<td>USP</td>
</tr>
<tr>
<td>Heavy Metals</td>
<td>20 µg/g maximum</td>
<td>USP</td>
</tr>
<tr>
<td>Sulfates</td>
<td>0.02% maximum</td>
<td>USP</td>
</tr>
<tr>
<td>Residue on Ignition</td>
<td>0.05% maximum</td>
<td>USP</td>
</tr>
<tr>
<td>Related Compounds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Hydroxybenzoic acid (Compound A)</td>
<td>0.1 % maximum</td>
<td>USP (HPLC)</td>
</tr>
<tr>
<td>4-Hydroxyisophthalic acid (Compound B)</td>
<td>0.05 % maximum</td>
<td></td>
</tr>
<tr>
<td>Phenol</td>
<td>0.01 % maximum</td>
<td></td>
</tr>
<tr>
<td>Other Impurities &gt; 0.05%</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Total impurities</td>
<td>0.2 % maximum</td>
<td></td>
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</table>

Notes: (1) validated against USP method
This product meets USP requirements. Compliance with EP is guaranteed.
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REGULATORY

EU: Certificate of Suitability ref. CEP 1993-008, current version
GMO status: Salicylic acid is GMO free
BSE/TSE status: Salicylic acid is free of BSE / TSE
Residual solvents: Only water is used in the final purification stages
Residual catalysts: No catalysts are utilized in the manufacturing process of salicylic acid
FEMA No.: 3985
INCI Name: Salicylic acid
REACH: Registration # 01-2119486984-17-0001
Regulatory support is provided to assist our customers in their registration process.

PACKAGING

- Kraft paper bags (polyethylene inner liner) of 25 kg net weight
- 250 lbs cardboard drums
- Flexible containers, from 500 to 1000 kg

TRANSPORT

- INLAND International Legislation (RID-ADR) Not regulated
- SEA FREIGHT (OMI)
- AIR FREIGHT (IATA)

STORAGE CONDITIONS

The product is stable under ICH accelerated conditions. Therefore, controlled conditions are not required for storage of salicylic acid.
Re-test date: 5 years
Store in sealed containers in a ventilated area, preferably below 40°C (excursions up to 60°C are authorized), do not store above 60°C as the product may consolidate due to some sublimation. Keep in a dry place, protected from sunlight and sources of ignition. Keep out of reach of children.

SAFETY INSTRUCTIONS

Please consult our material safety data sheet

DISCLAIMER

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. We guarantee that our products comply with our sales specifications.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document and we are at their disposal to supply any additional information.