P-Nitrophenol

Product Information

Chemical Name      P-Nitrophenol
Chemical structure

\[
\text{CAS #} \quad 100-02-7 \\
\text{EINECS} \quad 202-811-7 \\
\text{Formula} \quad \text{C}_6\text{H}_5\text{NO}_3 \\
\text{Molecular Weight} \quad 139.11 \\
\text{Synonyms} \quad 4\text{-Nitrophenol;1-Hydroxy-4-nitrobenzene;4-hydroxy-1-nitrobenzene;}
\]

Description

Light yellow crystals. Slightly soluble in water, soluble in ethanol, ether and benzene.

Physical Properties

Melting point   112 °C
Boiling point   279 °C (1013 mbar)
Density         1.27 g/mL at 25 °C (lit.)
Vapour pressure (25 °C) 0.6 mm Hg (120 °C)
Refractive index n20D1.4981
Flash point     169 °C
Storage conditions Store in dark!
Water solubility 1.6 g/100 ml
Stability  Stable. Incompatible with strong oxidizing agents, strong bases, organics, combustible material, reducing agents. Combustible.

Specification

-- Para-Nitrophenol 92%

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light yellow crystal</td>
</tr>
<tr>
<td>Assay,%</td>
<td>≥92.0</td>
</tr>
<tr>
<td>Water,%</td>
<td>≤ 7.0</td>
</tr>
<tr>
<td>ONP,%</td>
<td>≤ 0.1</td>
</tr>
<tr>
<td>PNCB,%</td>
<td>≤ 0.1</td>
</tr>
</tbody>
</table>

-- Para-Nitrophenol 99% (Capacitor Grade)

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<tbody>
<tr>
<td>Appearance</td>
<td>Light yellow crystal</td>
</tr>
<tr>
<td>Assay,%</td>
<td>≥99.0</td>
</tr>
<tr>
<td>Water,%</td>
<td>≤ 0.5</td>
</tr>
<tr>
<td>Cl-,ppm</td>
<td>≤ 1</td>
</tr>
<tr>
<td>Fe3+,ppm</td>
<td>≤ 2</td>
</tr>
<tr>
<td>SO42-,ppm</td>
<td>≤ 2</td>
</tr>
</tbody>
</table>

Applications

Para-Nitrophenol can be used as raw material for medicine and dyes.

-- Used as important raw materials of organic synthesis.
-- Used as raw materials and intermediates of pesticide, such as intermediates of organophosphorus pesticides, parathion methyl parathion, etc.
-- Used as raw materials and intermediates of medicines, such as phenacetin, paracetamol, etc.
-- Used as raw materials of Dye intermediates, such as Developer m tall, sulphur grass-green designed, the GN, sulfide reduction black CL, reversion of black CLB, red brown B3R sulfide reduction blue RNX, sulfide, etc.
-- Used as Leather preservatives.
-- Used as a PH indicator and Analytical reagent.

Packaging

-- 50kg bag
Total 20 MT per 20ft container with pallets.
-- 25kg fibre drum
Total 9 MT per 20ft container with pallets, 12 MT without pallets.
Safety & Storage & Handling

Stored in cool and airy place; away from fire and heat; handle with care; no breakage, avoid leakage. It is valid for 2 years under proper condition.
Para-Nitrophenol is classified as Dangerous Good for transport (UN 1663, Class 6.1, Packing group III)

* Please refer to MSDS for more information about Safety, Storage and Transportation.