1,6-Hexanediol

Chemical Name  1,6-Hexanediol
CAS #  629-11-8
Formula  C₆H₁₄O₂
Molecular Weight  118.17
Synonyms  HEXANE-1,6-DIOL

Description

HDO is a linear, bifunctional, primary alcohol. It is a white waxy solid at room temperature and a clear liquid at temperatures above its melting range.

- Melting point, °C: 38-42
- Boiling range, °C: 250
- Density @ 20°C, g/cm3: 0.96
- Flash point, °C: 137

Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay, % min.</td>
<td>99.5</td>
</tr>
<tr>
<td>Water, % max.</td>
<td>0.07</td>
</tr>
<tr>
<td>Solidification Temperature</td>
<td>42.8</td>
</tr>
<tr>
<td>Acid Number, koll/g</td>
<td>0.01</td>
</tr>
<tr>
<td>Chromaticity (Hazen60@c)</td>
<td>10</td>
</tr>
<tr>
<td>Every Other Impurity</td>
<td>Confirms</td>
</tr>
<tr>
<td>Total Impurities, %</td>
<td>0.30</td>
</tr>
</tbody>
</table>
Applications

1,6-Hexanediol is a valuable intermediate product for the chemical industry. It finds application in a variety of polymeric systems and is also used in the synthesis of specialty chemicals. This linear diol contains two primary hydroxyl groups which are terminally located. This configuration results in a rapid and simultaneous reaction in the formation of numerous di-substituted products.

As a solvent, 1,6-Hexanediol can be used in/with

- Microcellular polyurethane
- Cast elastomers
- Fibers
- Adhesives
- Plasticizers
- Dyestuffs
- Cosmetics
- Insecticides
- Surfactants
- Printing inks

Packaging

Waxy solid: 200kg per plastic or iron drum. 16tons(80drum)/20"FCL
Flake: 25kg per pp woven bag 13tons(520bags)/20"FCL

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