EVERNOX® MD-1024

Phenolic Antioxidant, metal deactivator

**Chemical Name**  
2',3-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl] propionohydrazide

**Formula**  
C_{34}H_{52}N_{2}O_{4}

**Molecular Weight**  
552.8

**CAS Number**  
32687-78-8

**Specification**

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White, to off-white powder</td>
</tr>
<tr>
<td>Ash content</td>
<td>0.1% max</td>
</tr>
<tr>
<td>Heat loss</td>
<td>0.5% max</td>
</tr>
<tr>
<td>Transmittance (2g in 100 ml Methanol)</td>
<td>at 425 nm 96.0% min</td>
</tr>
<tr>
<td>at 500 nm 98.0% min</td>
<td></td>
</tr>
<tr>
<td>Assay (By HPLC)</td>
<td>99.0% min</td>
</tr>
</tbody>
</table>

**Physical Properties**

- Melting range (°C)  
  221.0°C - 232.0°C
- Flash point (°C)  
  > 356°F
- Solubility (20°C)  
  g/100g
  - THF  
    12.0
  - Acetone  
    4
  - Chloroform  
    0.4
  - Methanol  
    4
  - Ethyl acetate  
    0.5
  - Methylene Chloride  
    0.25
  - Toluene  
    < 0.01
  - Water  
    < 0.01

**Weight loss (TGA, in air at 20°C/min)**

- Temp. (°C) at 2% weight loss  
  253°C
- Temp. (°C) at 10% weight loss  
  290°C
### Applications
Highly efficient hindered phenolic antioxidant and metal deactivator for polyolefins and certain thermo-plastic elastomers utilized as primary insulation in contact with copper.

### Handling & Safety
EVERNOX MD-1024 should be handled with care and prevent contamination of the environment. Avoid dust formation and ignition sources.
For more detailed information please refer to the material safety data sheet.

### Packing
The following packages are available upon customer’s request:
1. 40 kgs fiber drum.
2. Other specific request.

### Transportation
EVERNOX MD-1024 is not dangerous materials according to the transportation regulations.

### Storage
EVERNOX MD-1024 be stored under suitable conditions (dry & cool).
Maximum recommended storage time from the date of analysis: 24 months.

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