DTBP-30-AL
Di(tert.-butyl)peroxide
CAS#110-05-4
30%, solution in aliphatics
Molar mass: 146.2 g/mol

Structural Formula

\[
\begin{array}{c}
\text{CH}_3 \\
\text{CH}_3 \\
\text{CH}_3 \\
\text{CH}_3 \\
\text{CH}_3 \\
\text{C} \quad \text{O} \quad \text{O} \quad \text{C} \quad \text{CH}_3 \\
\text{H}_3\text{C} \quad \text{CH}_3
\end{array}
\]

Description
Colourless, mobile liquid, consisting of 30% Di(tert.butyl)peroxide, desensitised with high-boiling aliphatic hydrocarbons. This highly volatile dialkyl peroxide is used as an initiator (radical source) in the high pressure polymerisation of ethylene.

Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>colourless liquid</td>
</tr>
<tr>
<td>Peroxide</td>
<td>approx. 30% w/w</td>
</tr>
<tr>
<td>Active oxygen (calculated)</td>
<td>approx. 3.28% w/w</td>
</tr>
<tr>
<td>De-sensitising agent</td>
<td>aliphatic</td>
</tr>
<tr>
<td>Density at 20 °C</td>
<td>approx. 0.76 g/cm³</td>
</tr>
<tr>
<td>Viscosity at 20 °C</td>
<td>approx. 1.1 mPa.s</td>
</tr>
<tr>
<td>Refractive index at 20 °C</td>
<td>approx. 1.411</td>
</tr>
<tr>
<td>Critical temperature (SADT) in IBC/Bulk</td>
<td>80 °C / 60 °C</td>
</tr>
<tr>
<td>Cold storage stability</td>
<td>liquid to below -20 °C</td>
</tr>
<tr>
<td>Recommended storage temperature</td>
<td>below 30 °C</td>
</tr>
<tr>
<td>Storage stability (activity) as from date of delivery</td>
<td>6 months</td>
</tr>
</tbody>
</table>

This product is in compliance with the ElektroG
(EU-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

Half-life-time
10 h/1 h/1 min (0.1 m/benzene): 125/146/190 °C
Application

ETHYLENE:
Initiator for the high pressure polymerisation of ethylene in combination with more active peroxides.
Temperatur range: ca. 190-280°C.
Particular advantages: approved to be transported in IBC (1 - 1.25 m³) and bulk containers (ca. 20 m³).

Standard Packaging

740kg plastics IBC
920kg stainless steel IBC

Disclaimer

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