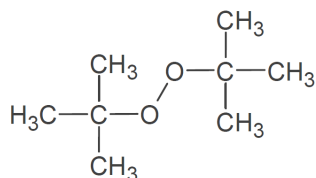


# PEROXAN DB-30

## Dialkyl peroxide / Polymerization

### Description

Di-tert-butyl peroxide  
30%, Solution in odorless white spirits  
PEROXAN DB-30 is used for the (co)polymerization of ethylene.



Molecular weight: **146.2**  
CAS No.: **110-05-4**

### Technical data

Appearance: **clear liquid**  
Peroxide assay: **appx. 30%**  
Active oxygen assay: **appx. 3.28%**  
Density at 20°C: **0.8 g/cm<sup>3</sup>**

### Half life time

in chlorobenzene:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>121°C</b>	<b>141°C</b>	<b>183°C</b>

### Storage

Maximum storage temperature (Ts max): **40°C**  
Storage stability as from date of delivery: **6 months**

### Hazardous reactions

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

### Safety characteristics

SADT: **80°C**

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

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### Application

Due to its high volatility, PEROXAN DB-30 requires precautions in handling and metering.

Polymerization of ethylene:

PEROXAN DB-30 is used for high pressure polymerization of ethylene in both autoclave and tubular processes, usually in combination with other peroxides of varying degrees of activity.

Temperature range: 240 to 280°C

Light-off temperature at 2300 bar: 265°C

### Packaging

**20kg container**

**160kg drum**

**900kg IBC**

Bulk delivery of PEROXAN DB-30 in a 1,25 m<sup>3</sup> stainless steel intermediate bulk container (IBC) is possible in a number of countries.

### Major decomposition products

**Acetone, Methane, tert-Butanol**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN DB-30. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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