

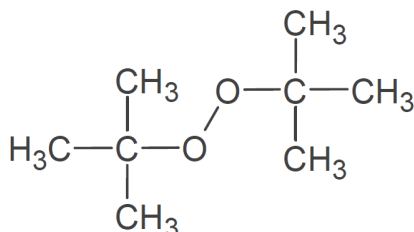
PEROXAN DB-50

Dialkyl peroxide / Polymerization

Description

Di-tert-butyl peroxide
50%, Solution in odorless white spirits

PEROXAN DB-50 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. 50%**
Active oxygen assay: **appx. 5.47%**
Density at 20°C: **0.8 g/cm³**

Half life time

in chlorobenzene:

t _{1/2}	10h	1h	1min
bei	121°C	141°C	183°C

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** SADT in IBC: **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-50 requires precautions in handling and metering.

Polymerization of ethylene:

PEROXAN DB-50 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-50 in a 1,25 m³ 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-50. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at www.pergan.com or through contacting Pergan directly.

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