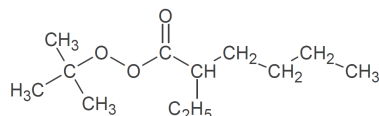


PEROXAN PO-30

Peroxyester / Polymerization

Description

tert-Butyl peroxy-2-ethylhexanoate
30%, Solution in odorless white spirits
PEROXAN PO-30 is used for the (co)polymerization of ethylene.



Molecular weight: **216.3**
CAS No.: **3006-82-4**

Technical data

Appearance: **clear liquid**
Peroxide assay: **appx. 30%**
Active oxygen assay: **appx. 2.18%**
Density at 20°C: **0.78 g/cm³**

Half life time

in chlorobenzene:

t _{1/2}	10h	1h	1min
bei	72°C	91°C	131°C

Storage

Maximum storage temperature (Ts max): **15°C**
Storage stability as from date of delivery: **3 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:	50°C	SADT in IBC:	40°C
Emergency temperature:	45°C	Emergency temperature in IBC:	35°C
Control temperature:	40°C	Control temperature in IBC:	30°C

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

The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken. The control temperature is the maximum temperature at which the product can be transported safely.

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Application

Polymerization of ethylene:

PEROXAN PO-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: 180 to 230°C

Light-off temperature at 2300 bar: 188°C

Packaging

20kg container

900kg IBC

Bulk delivery of PEROXAN PO-30 in a 1,25 m³ stainless steel intermediate bulk container (IBC) is possible in a number of countries.

Major decomposition products

3-tert-Butoxyheptane, Heptane, Carbon dioxide, tert-Butanol

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PO-30. 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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