

PEROXAN PIN-30

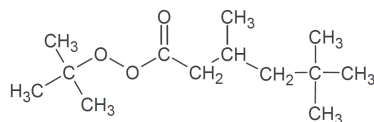
Peroxyester / Polymerization

Description

tert-Butyl peroxy-3,5,5-trimethylhexanoate

30%, Solution in odorless white spirits

PEROXAN PIN-30 is used for the (co)polymerization of ethylene.



Molecular weight:

230.3

CAS No.:

13122-18-4

Technical data

Appearance:

clear liquid

Peroxide assay:

appx. 30%

Active oxygen assay:

appx. 2.08%

Density at 20°C:

0.8 g/cm³

Half life time

in chlorobenzene:

t _{1/2}	10h	1h	1min
bei	94°C	114°C	154°C

Storage

Maximum storage temperature (Ts max):

30°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:

60°C

SADT in IBC:

60°C

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

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Application

Polymerization of ethylene:

PEROXAN PIN-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: 210 to 240°C

Light-off temperature at 2300 bar: 220°C

Packaging

25kg container

900kg IBC

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

Major decomposition products

2-tert.-Butyloxy-2,4,4-trimethylpentane, Acetone, Carbon dioxide, 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 PIN-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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