

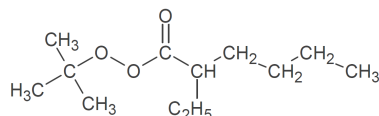
PEROXAN PO-70

Peroxyester / Polymerization

Description

tert-Butyl peroxy-2-ethylhexanoate
70%, Solution in odorless white spirits

PEROXAN PO-70 is used for the (co)polymerization of ethylene, styrene, acrylonitrile, acrylates and methacrylates.



Molecular weight:

216.3

CAS No.:

3006-82-4

Technical data

Appearance:

clear liquid

Peroxide assay:

appx. 70%

Active oxygen assay:

appx. 5.18%

Density at 20°C:

0.85 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: **35°C**

Emergency temperature: **25°C**

Control temperature: **20°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-70 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

Polymerization of styrene:

PEROXAN PO-70 may be used in polymerization and copolymerization of styrene.

Temperature range: 80 to 110°C

Dosing: 0,08 to 0,4 phr

Polymerization of acrylates and methacrylates:

PEROXAN PO-70 can be used as initiator for the solution, bulk and suspension (co)polymerization of acrylates and methacrylates.

Temperature range (solution polym.): 80 to 150°C

Dosing: 0,1 to 1 phr

Other applications:

PEROXAN PO-70 may also be used for the (co)polymerization of acrylonitrile.

Packaging

25kg container

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-70. 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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