

PEROXAN PO

Peroxyester / Polymerization

Description tert-Butyl peroxy-2-ethylhexanoate

98%, Liquid

PEROXAN PO 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: min. 98%
Active oxygen assay: min. 7.25%
Density at 20°C: 0.9 g/cm³

Half life time in chlorobenzene:

t ½	10h	1h	1min	
bei	72°C	91°C	131°C	

Solubility Insoluble in water, soluble in aliphatics

Storage Maximum storage temperature (Ts max): 15°C

Storage stability as from date of delivery: 3 months

Hazardous reactionsKeep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps).

Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

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: 25°C 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 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 may be used in polymerization and copolymarization of styrene.

Temperature range: 80 to 110°C

Dosing: 0,08 to 0,4 phr

Polymerization of acrylates and methacrylates:

PEROXAN PO 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 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. 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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