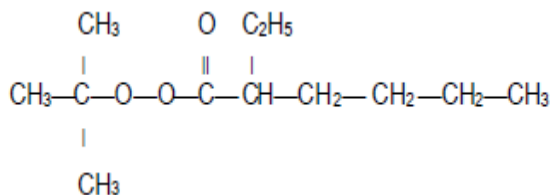


## PEROXAN PO

### 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 0,90 g/cm<sup>3</sup>

### HALF LIFE TIME

in chlorobenzene

t ½	10 h	1 h	1 min
at	72 °C	91 °C	131 °C

### STORAGE

Maximum storage temperature (T<sub>s max</sub>) 15 °C  
Storage stability as from date of delivery 3 months

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.

### THERMAL STABILITY

SADT 35 °C  
Emergency temperature (T<sub>em</sub>) 25 °C  
Control temperature (T<sub>c</sub>) 20 °C

## PEROXAN PO

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The SADT 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.

### 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 copolymerization 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

25 kg Container

### MAJOR DECOMPOSITION PRODUCTS

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

### 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.

06/2016

All information is given, based upon our best knowledge, but without liability to us. Data has been obtained by laboratory experiments made by our supplier. Since the condition under which the product is consumed is outside of our control, the product should be tested before us