

## **PEROXAN APO**

## **Peroxyester / Polymerization**

Description tert-Amyl peroxy-2-ethylhexanoate

95%, Liquid

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

230.4 Molecular weight: 686-31-7 CAS No.:

**Technical data** Appearance: clear liquid

min. 95% Peroxide assay: Active oxygen assay: min. 6.6% Density at 20°C: 0.9 g/cm<sup>3</sup>

Half life time in chlorobenzene:

t 1/2	10h	1h	1min
bei	73°C	91°C	128°C

**Storage** Maximum storage temperature (Ts max): 5°C

SADT:

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 **Hazardous reactions** 

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.

25°C Emergency temperature: Control temperature: 20°C

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

35°C

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.

Safety characteristics



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**Application** Polymerization of ethylene:

PEROXAN APO 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: 160 to 210°C Light-off temperature at 2300 bar: 184°C

Polymerization of styrene:

PEROXAN APO may be used in polymerization and copolymarization of styrene.

Temperature range: 80 to 110°C

Dosing: 0,1 to 0,5 phr

Polymerization of acrylates and methacrylates:

PEROXAN APO can be used as initiator for the solution, bulk and suspension (co)polymerization of

acrylates and methacrylates.

Temperature range (solution polym.): 70 to 120°C

Dosing: 0,1 to 1 phr

Other applications:

PEROXAN APO may also be used for the (co)polymerization of acrylonitrile.

Packaging 25kg container

Major decomposition products 3-(1,1-Dimethylpropoxy)heptane, Acetone, Ethane, Heptane, Carbon dioxide, Methane, tert

Amyl-alcohol

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling

of PEROXAN APO. 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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