

## PEROXAN APV

## **Peroxyester / Polymerization**

**Description** tert-Amyl peroxypivalate

75%, Solution in odorless white spirits

PEROXAN APV is used for the (co)polymerization of ethylene, vinylchloride, vinylidenechloride, acrylates and methacrylates.

 Molecular weight:
 188.3

 CAS No.:
 29240-17-3

Technical data Appearance: clear liquid

Peroxide assay: appx. 75%
Active oxygen assay: appx. 6.37%
Density at 0°C: 0.86 g/cm³

**Half life time** in chlorobenzene:

t 1/2	10h	1h	1min	
bei	55°C	72°C	107°C	

Storage Maximum storage temperature (Ts max): -10°C

SADT:

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.

Emergency temperature: 15°C Control temperature: 10°C

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

25°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 APV 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: 130 to 180°C Light-off temperature at 2300 bar: 145°C

Polymerization of vinylchloride:

PEROXAN APV may be used in polymerization and copolymarization of vinylchloride.

Temperature range: 50 to 65°C

Dosing: 0,04 to 0,1 phr

Polymerization of acrylates and methacrylates:

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

acrylates and methacrylates.

Temperature range: 50 to 80°C

Dosing: 0,04 to 0,1 phr

Other applications:

PEROXAN APV may also be used for the (co)polymerization of vinylidenechloride.

Packaging 25kg container

Major decomposition products Acetone, Ethane, Isobutane, isobutene, Carbon dioxide, Methylethylketon, 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 APV. 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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