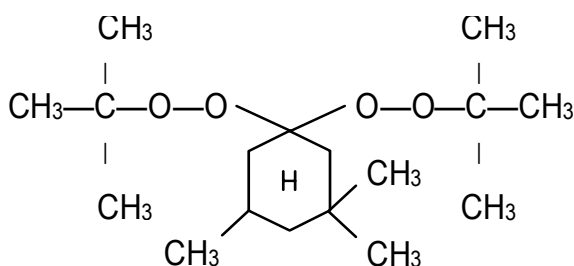


## PEROXAN PK295 V-75

High Polymers  
Peroxyketals

**Description:** 1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane  
75% , Solution in odorless mineral spirits

PEROXAN PK295 V-75 is used for the (co)polymerization of styrene, acrylonitrile, acrylates and methacrylates.



Molecular weight: 302,5  
CAS No.: 6731-36-8

**Technical data:** Appearance: clear liquid  
Peroxide assay: ca. 75%  
Active oxygen assay: ca. 7,93%  
Density at 20°C: 0,87 g/cm<sup>3</sup>

**Half life time:** in chlorobenzene

$t_{1/2}$	10h	1 h	1 min
at	85°C	105°C	148°C

**Storage:** Maximum storage temperature ( $T_{s,max}$ ): 30°C  
Storage stability as from date of delivery: 6 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: 60°C  
Emergency temperature ( $T_{em}$ ): 55°C

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.

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## PEROXAN PK295 V-75

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High Polymers  
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**Application:**

Polymerization of styrene:

PEROXAN PK295 V-75 may be used in bulk polymerization of styrene.

Due to the bifunctionality of PEROXAN PK295 V-75 and the more constant reaction rate using this initiator, the resulting polymer has a higher molecular weight and shows reduced dispersity.

Temperature range: 90 to 120°C

Dosing: 0,02 to 0,08 phr

Polymerization of acrylates and methacrylates:

PEROXAN PK295 V-75 can be used as initiator for the solution, bulk and suspension (co)polymerization of acrylates and methacrylates.

Temperature range: 90 to 120°C

Dosing: 0,04 to 0,8 phr

Other applications:

PEROXAN PK295 V-75 may also be used for the (co)polymerization of acrylonitrile.

**Packaging:**

25 kg Container

**Major decomposition products:**

Carbon dioxide, 3,3,5-Trimethylcyclohexanone, Methane, t-Butanol, Acetone

**Safety and handling:**

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PK295 V-75. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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