

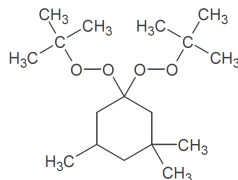
# PEROXAN PK295 V-90

## Peroxyketale / Polymerization

### Description

1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane  
90%, Solution in odorless white spirits

PEROXAN PK295 V-90 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:

**appx. 90%**

Active oxygen assay:

**appx. 9.52%**

Density at 20°C:

**0.91 g/cm<sup>3</sup>**

### Half life time

in chlorobenzene:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>85°C</b>	<b>105°C</b>	<b>148°C</b>

### Storage

Maximum storage temperature (Ts max):

**30°C**

Storage stability as from date of delivery:

**6 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.

### Safety characteristics

SADT:

**60°C**

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

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### Application

#### Polymerization of styrene:

PEROXAN PK295 V-90 may be used in bulk polymerization of styrene. Due to the bifunctionality of PEROXAN PK295 V-90 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-90 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-90 may also be used for the (co)polymerization of acrylonitrile.

### Packaging

**25kg container**

### Major decomposition products

**3,3,5-Trimethylcyclohexanone, Acetone, Carbon dioxide, Methane, tert-Butanol**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PK295 V-90. 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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