

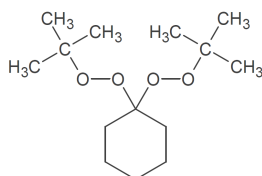
# PEROXAN PK122 V-80

## Peroxyketale / Polymerization

### Description

1,1-Di-(tert-butylperoxy)-cyclohexane  
80%, Solution in odorless white spirits

PEROXAN PK122 V-80 is used for the (co)polymerization of styrene, acrylonitrile, acrylates and methacrylates.



Molecular weight:

**260.4**

CAS No.:

**3006-86-8**

### Technical data

Appearance:

**clear liquid**

Peroxide assay:

**appx. 80%**

Active oxygen assay:

**appx. 9.83%**

Density at 20°C:

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

### Half life time

in chlorobenzene:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>94°C</b>	<b>113°C</b>	<b>152°C</b>

### Storage

Maximum storage temperature (Ts max):

**25°C**

Storage stability as from date of delivery:

**6 months**

### Hazardous reactions

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

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 PK122 V-80 may be used in bulk polymerization of styrene. Due to the bifunctionality of PEROXAN PK122 V-80 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: 0,01 to 0,08 phr

#### Polymerization of acrylates and methacrylates:

PEROXAN PK122 V-80 can be used as initiator for the solution, bulk and Suspension (co)polymerization of acrylates and methacrylates.

Temperature range: 95 to 125°C

Dosing: 0,08 to 0,8 phr

#### Other applications:

PEROXAN PK122 V-80 may also be used for the (co)polymerization of acrylonitrile.

### Packaging

**20kg container**

### Major decomposition products

**Acetone, Hexanoic acid, 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 PK122 V-80. 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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