

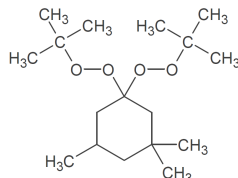
PEROXAN PK295 V

Peroxyketale / Polymerization

Description

1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane
50%, Solution in odorless white spirits

PEROXAN PK295 V 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. 50%

Active oxygen assay:

appx. 5.29%

Density at 20°C:

0.83 g/cm³

Half life time

in chlorobenzene:

t _{1/2}	10h	1h	1min
bei	85°C	105°C	148°C

Solubility

Insoluble in water, soluble in aliphatics

Storage

Maximum storage temperature (Ts max):

30°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

Flash point:

>SADT°C

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 may be used in bulk polymerization of styrene. Due to the bifunctionality of PEROXAN PK295 V 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 0,1 phr

Polymerization of acrylates and methacrylates:

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

Temperature range: 90 to 120°C

Dosing: 0,05 to 1 phr

Other applications:

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

Packaging

20kg 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. 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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