

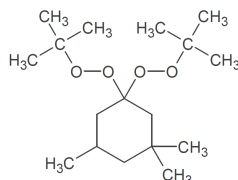
PEROXAN PK295 V-90

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/cm³

Half life time

in chlorobenzene:

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

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 or through contacting Pergan directly.

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