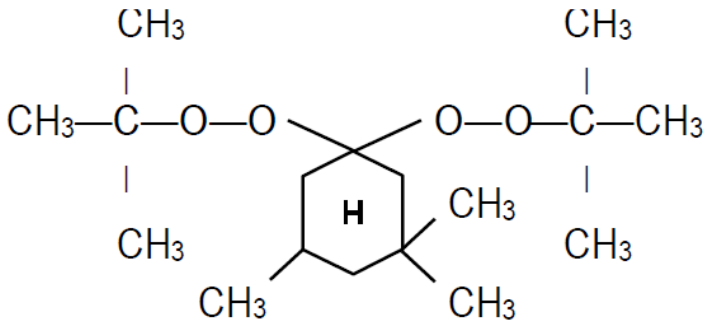
TECHNICAL DATA SHEET
PEROXAN PK 295 V

DESCRIPTION

1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane 50 %.
Solution in odorless mineral spririts

PEROXAN PK 295 V is used for the (co)polymerization of styrene, acrylonitrile, acrylates and methacrylate's.



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

TECHNICAL DATA

Appearance	clear liquid
Peroxide assay	ca. 50 %
Active oxygen assay	ca. 5,29 %
Density at 20 °C	0,83 g/cm³

HALF LIFE TIME

in chlorobenzene

t ½	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.

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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.

APPLICATION

Polymerization of styrene
PEROXAN PK 295 V may be used in bulk polymerization of styrene.
Due to the bifunctionality of **PEROXAN PK 295 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 PK 295 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 PK 295 V may also be used for the (co)polymerization of acrylonitrile.

PACKAGING

20 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 PK 295 V**. This information should be thoroughly reviewed prior to acceptance of this product.

07/2016