

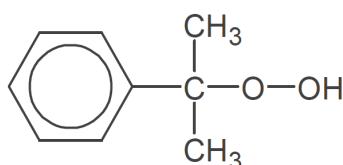
PEROXAN CU-90 L

Hydroperoxide / Polymerization

Description

Cumyl hydroperoxide
90%, Solution in cumene

PEROXAN CU-90 L is used for the copolymerization of styrene/butadiene (SBR rubber) and acryl nitrile/butadiene/styrene (ABS rubber) as well as for the emulsion polymerization of (meth-)acrylates and acrylic resins dispersions.



Molecular weight:

152.2

CAS No.:

80-15-9

Technical data

Appearance:

clear, colourless or light yellow liquid

Peroxide assay:

appx. 90%

Active oxygen assay:

appx. 9.46%

Density at 20°C:

1.06 g/cm³

Half life time

in chlorobenzene:

$t_{1/2}$	10h	1h	1min
bei	140°C	166°C	222°C

Storage

Maximum storage temperature (Ts max):

30°C

Minimum storage temperature (Ts min):

0°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:

70°C

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

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Application

Copolymerization of styrene/butadiene (SBR rubber) and acryl nitrile/ butadiene/styrene (ABS rubber):

The emulsion polymerization can be initiated through a redox mechanism at low temperatures. Suitable reducing agents are Fe-salts, sulphites, dithionites, etc.

Temperature range: 5 to 20°C

Dosing: 0,1 to 0,3 phr

Polymerization of (meth-)acrylates and acrylic resins dispersions:

The emulsion polymerization can be initiated through a redox mechanism at low temperatures. Suitable reducing agents are Fe-salts, sulphites, dithionites, ascorbinic acid or sugar, etc.

Temperature range: 50 to 80°C

Dosing: 0,1 to 0,5 phr

Packaging

25kg container

200kg drum

Major decomposition products

2-Phenylisopropanol, acetophenone, Methane

Safety and handling

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