

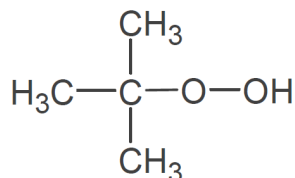
PEROXAN BHP-10

Hydroperoxide / Polymerization

Description

tert-Butyl hydroperoxide
10%, Solution in water

PEROXAN BHP-10 is used for the copolymerization of styrene/butadiene (SBR rubber) and acrylonitrile/butadiene/styrene (ABS rubber) as well as for the emulsion polymerization of vinylacetate, (meth-)acrylates and acrylic resins dispersions.



Molecular weight:

90.1

CAS No.:

75-91-2

Technical data

Appearance:

clear, colourless liquid

Peroxide assay:

appx. 10%

Active oxygen assay:

appx. 1.78%

Density at 20°C:

1 g/cm³

Half life time

in chlorobenzene:

t _{1/2}	10h	1h	1min
bei	164°C	185°C	227°C

Storage

Maximum storage temperature (Ts max):

30°C

Minimum storage temperature (Ts min):

5°C to prevent freezing

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:

80°C

SADT in IBC:

80°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 25°C

Dosing: 0,7 to 2,1 phr

Polymerization of vinylacetate, (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.

PEROXAN BHP-10 is particularly suitable for reduction of residual monomer.

Temperature range: 50 to 80°C

Dosing: 0,7 to 3,5 phr

Packaging

1000kg IBC

Bulk delivery of PEROXAN BHP-10 in a 1,25 m³ stainless steel intermediate bulk container (IBC) is possible in a number of countries.

Major decomposition products

Ethane, 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 BHP-10. 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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