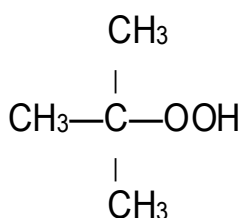


PEROXAN BHP-70

High Polymers
Hydroperoxides

Description: tert-Butyl hydroperoxide
70% , Solution in water

PEROXAN BHP-70 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 vinylacetate, (meth-)acrylates and acrylic resins dispersions.



Molecular weight: 90,1
CAS No.: 75-91-2

Technical data: Appearance: clear, colourless liquid
Peroxide assay: ca. 70%
Active oxygen assay: ca. 12,43%
Density at 20°C: 0,93 g/cm³

Half life time: in chlorobenzene

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

Storage: Maximum storage temperature (T_{s max}): 30°C
Minimum storage temperature (T_{s min}): 5°C to prevent freezing
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.

Thermal stability: SADT: 80°C
Emergency temperature (T_{em}): 75°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.

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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: 0,1 to 0,3 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-70 is particularly suitable for reduction of residual monomer.

Temperature range: 50 to 80°C
Dosing: 0,1 to 0,5 phr

Packaging: 25 kg Container

Major decomposition products: Methane, Ethane, t-Butanol

Safety and handling: Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BHP-70. 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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