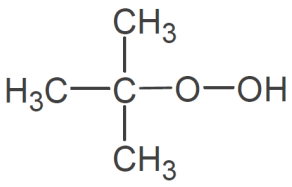
PEROXAN BHP-70

Hydroperoxide / Polymerization

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 liquid**
Peroxide assay:	**appx. 70%**
Active oxygen assay:	**appx. 12.43%**
Density at 20°C:	**0.93 g/cm³**

Half life time

in chlorobenzene:

$t_{½}$	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

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

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

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

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PEROXAN BHP-70

Hydroperoxide / Polymerization

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	**25kg container**
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-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.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

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