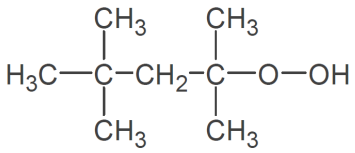
PEROXAN OHP

Hydroperoxide / Polymerization

Description

1,1,3,3-Tetramethylbutyl hydroperoxide
85%, Solution in diisobutylene

PEROXAN OHP 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:	**146.2**
CAS No.:	**5809-08-5**

Technical data

Appearance:	**clear liquid**
Peroxide assay:	**appx. 85%**
Active oxygen assay:	**appx. 9.3%**
Density at 20°C:	**1.04 g/cm³**

Half life time

in chlorobenzene:

$t_{½}$	10h	1h	1min
bei	**153°C**	**182°C**	**247°C**

Storage

Maximum storage temperature (Ts max):	**25°C**
Minimum storage temperature (Ts min):	**-5°C** to prevent crystallization
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: 60°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**
Major decomposition products	**Ethane, Methane**
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN OHP. 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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