

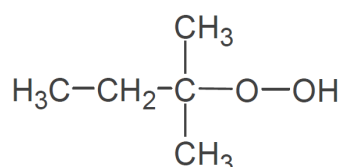
PEROXAN AHP

Hydroperoxide / Polymerization

Description

tert-Amyl hydroperoxide
80%, Solution in water

PEROXAN AHP is used for the copolymerization of styrene/butadiene (SBR rubber) and acryl nitrile/ butadiene/styrene (ABS rubber).



Molecular weight: **104.2**
CAS No.: **3425-61-4**

Technical data

Appearance: **clear, colourless liquid**
Peroxide assay: **appx. 80%**
Active oxygen assay: **appx. 12.3%**
Density at 20°C: **0.9 g/cm³**

Half life time

in chlorobenzene:

t _{1/2}	10h	1h	1min
bei	165°C	190°C	250°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**

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

Packaging

25kg container

Major decomposition products

Ethane, Methane, tert Amyl-alcohol

Safety and handling

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