

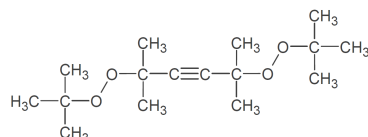
# PEROXAN HXY-85 W

Dialkyl peroxide / Polymerization

## Description

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexyne-3  
85%, Solution in white oil

PEROXAN HXY-85 W is used for the (co)polymerization of ethylene, styrene, acrylates and methacrylates.



Molecular weight:

**286.4**

CAS No.:

**1068-27-5**

## Technical data

Appearance:

**clear liquid**

Peroxide assay:

**appx. 85%**

Active oxygen assay:

**appx. 9.5%**

Density at 20°C:

**0.88 g/cm<sup>3</sup>**

## Half life time

in chlorobenzene:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>120°C</b>	<b>141°C</b>	<b>184°C</b>

## Storage

Maximum storage temperature (Ts max):

**30°C**

Minimum storage temperature (Ts min):

**10°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**

Polymerization of styrene:

PEROXAN HXY-85 W may be used in polymerization and copolymerization of styrene. In a mass process PEROXAN HXY-85 W can be used to increase polymerization rates.

Temperature range: 95 to 185°C

Dosing: 0,02 to 0,1 phr

**Packaging**

**25kg container**

**Major decomposition products**

**2,5-Dimethyl-2,5-di(hydroxy)hexyne-3, Acetone, 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 HXY-85 W. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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