

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/cm³

Half life time in chlorobenzene:

t ½	10h	1h	1min
bei	120°C	141°C	184°C

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 copolymarization 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 or through contacting Pergan directly.

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Schlavenhorst 71 Phone: +49 (0)2871 / 99 02-0
D-46395 Bocholt Fax: +49 (0)2871 / 99 02-50
Germany www.pergan.com