

PEROXAN PK122 W

Peroxyketale / Polymerization

Description 1,1-Di-(tert-butylperoxy)-cyclohexane

50%, Solution in white oil

PEROXAN PK122 W is used for the (co)polymerization of styrene, acrylonitrile, acrylates and methacrylates.

Molecular weight: 260.4 CAS No.: 3006-86-8

Technical data Appearance: clear liquid

Peroxide assay: appx. 50%
Active oxygen assay: appx. 6.14%
Density at 20°C: 0.89 g/cm³

Half life time in chlorobenzene:

t ½	10h	1h	1min
bei	94°C	113°C	152°C

StorageMaximum storage temperature (Ts max):30°CStorage stability as from date of delivery:6 months

Hazardous reactionsOrganic 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: 70°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 PK122 W may be used in bulk polymerization of styrene.

Due to the bifunctionality of PEROXAN PK122 W and the more constant reaction rate using this initiator, the resulting polymer has a higher molecular weight and shows reduced dispersity.

Temperature range: 90 to 120°C

Dosing: 0,02 to 0,1 phr

Polymerization of acrylates and methacrylates:

PEROXAN PK122 W can be used as initiator for the solution, bulk and suspension

(co)polymerization of acrylates and methacrylates.

Temperature range: 95 to 125°C

Dosing: 0,1 to 1 phr

Other applications:

PEROXAN PK122 W may also be used for the (co)polymerization of acrylonitrile.

Packaging 20kg container

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling
of PEROXAN PK122 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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