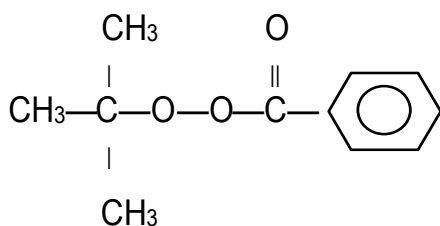


PEROXAN PB

High Polymers
Peroxesters

Description: tert-Butyl peroxybenzoate
98% , Liquid

PEROXAN PB is used for the (co)polymerization of ethylene, styrene, acrylonitrile, vinylacetate, acrylates and methacrylates.



Molecular weight: 194,2
CAS No.: 614-45-9

Technical data: Appearance: clear liquid
Peroxide assay: min. 98%
Active oxygen assay: min. 8,07%
Density at 20°C: 1,04 g/cm³

Half life time: in chlorobenzene

t _{1/2}	10h	1 h	1 min
at	103°C	122°C	160°C

Storage: Maximum storage temperature (T_{s max}): 30°C
Minimum storage temperature (T_{s min}): 10°C to prevent crystallization
Storage stability as from date of delivery: 6 months

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.

Thermal stability: SADT: 60°C
Emergency temperature (T_{em}): 55°C

The SADT is the lowest temperature at which a self accelerating decomposition may occur. The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken.

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Application:

Polymerization of ethylene:

PEROXAN PB is used for high pressure polymerization of ethylene in both autoclave and tubular processes, usually in combination with other peroxides of varying degrees of activity.

Temperature range: 220 to 270°C

Light-off temperature at 2300 bar: 225°C

Polymerization of styrene:

PEROXAN PB may be used in polymerization and copolymerization of styrene.

In a mass process PEROXAN PB can be used to increase polymerization rates.

In suspension polymerization processes, PEROXAN PB is often used for reduction of residual styrene content during the final polymerization stage.

Temperature range: 100 to 140°C

Dosing: 0,02 to 0,1 phr

Polymerization of acrylates and methacrylates:

PEROXAN PB can be used as initiator for the solution, bulk and suspension (co)polymerization of acrylates and methacrylates.

Temperature range: 90 to 130°C

Dosing: 0,1 to 1 phr

Other applications:

PEROXAN PB may also be used for the (co)polymerization of acrylonitrile and vinyl acetate.

Packaging:

25 kg Container

Major decomposition products:

Carbon dioxide, Acetone, Methane, t-Butanol, Benzoic acid, Benzene

Safety and handling:

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