

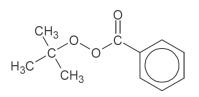


Description

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

Appearance: Peroxide assay: Active oxygen assay: Density at 20°C: clear, colourless or light yellow liquid min. 98% min. 8.07% 1.04 g/cm³

Half life time

Technical data

in chlorobenzene:

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

Solubility	Insoluble in water, Soluble in phtha	lates	
Storage	Maximum storage temperature (Ts Minimum storage temperature (Ts r Storage stability as from date of del	nin):	30°C 10°C to prevent freezing 6 months
Hazardous reactions	Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.		
	Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.		
	Organic Peroxides are more or less stable products but will decompose a loss of quality during storage, it is important that the recommended m exceeded. If a minimum storage temperature is given, an undesirable p separation, is known to occur below this temperature.		nended maximum storage temperature is not
Safety characteristics	Flash point: SADT:	>SADT°C 60°C	
	The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self		

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.



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PEROXAN PB Peroxyester / Polymerization

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 copolymarization 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	25kg container
Major decomposition products	Acetone, Benzoic acid, Benzene, , Carbon dioxide, tert-Butanol
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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