

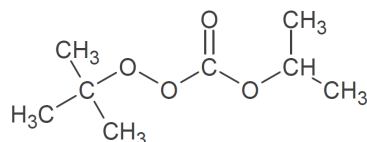
# PEROXAN BIC

## Peroxyester / Polymerization

### Description

tert-Butyl peroxyisopropylcarbonate  
75%, Solution in odorless white spirits

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



Molecular weight:

**176.2**

CAS No.:

**2372-21-6**

### Technical data

Appearance:

**clear liquid**

Peroxide assay:

**appx. 75%**

Active oxygen assay:

**appx. 6.81%**

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>98°C</b>	<b>117°C</b>	<b>155°C</b>

### Solubility

Insoluble in water, soluble in various aliphatic and aromatic solvents

### Storage

Maximum storage temperature (Ts max):

**25°C**

Minimum storage temperature (Ts min):

**0°C**

Storage stability as from date of delivery:

**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 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

Flash point:

**50°C**

SADT:

**60°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 BIC may be used in polymerization and copolymerization of styrene.

In a mass process PEROXAN BIC can be used to increase polymerization rates. In suspension polymerization processes, PEROXAN BIC is often used for reduction of residual styrene content during the final polymerization stage. PEROXAN BIC is a benzene-free replacement of tert-Butyl peroxybenzoate (PEROXAN PB).

Temperature range: 95 to 125°C

Dosing: 0,02 to 0,1 phr

Polymerization of acrylates and methacrylates:

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

Temperature range (solution polym.): 100 to 170°C

Dosing: 0,1 to 1 phr

### Packaging

**25kg container**

### Major decomposition products

**Acetone, isopropanol, Carbon dioxide, 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 BIC. 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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