

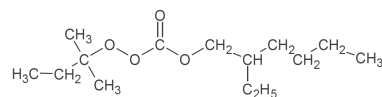
# PEROXAN AEC

## Peroxyester / Polymerization

### Description

tert-Amyl peroxy 2-ethylhexyl carbonate  
95%, Liquid

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



Molecular weight: **260.4**  
CAS No.: **70833-40-8**

### Technical data

Appearance: **clear liquid**  
Peroxide assay: **min. 94%**  
Active oxygen assay: **min. 5.78%**  
Density at 20°C: **0.93 g/cm<sup>3</sup>**

### Half life time

in chlorobenzene:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>95°C</b>	<b>113°C</b>	<b>151°C</b>

### Storage

Maximum storage temperature (Ts max): **25°C**  
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: **55°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 AEC may be used in polymerization and copolymerization of styrene. In a mass process PEROXAN AEC can be used to increase polymerization rates. In suspension polymerization processes, PEROXAN AEC is often used for reduction of residual styrene content during the final polymerization stage. PEROXAN AEC is a benzene-free replacement of tert-Butyl peroxybenzoate (PEROXAN PB).

Temperature range: 100 to 130°C

Dosing: 0,02 to 0,1 phr

#### Polymerization of acrylates and methacrylates:

PEROXAN AEC 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

### Packaging

**25kg container**

### Major decomposition products

**2-Ethylhexanol, Carbon dioxide, tert Amyl-alcohol**

### Safety and handling

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