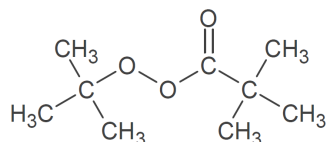


# PEROXAN PPV-25

## Peroxyester / Polymerization

### Description

tert-Butyl peroxy-pivalate  
25%, Solution in odorless white spirits  
PEROXAN PPV-25 is used for the (co)polymerization of ethylene.



Molecular weight: **174.2**  
CAS No.: **927-07-1**

### Technical data

Appearance: **clear liquid**  
Peroxide assay: **appx. 25%**  
Active oxygen assay: **appx. 2.3%**  
Density at 0°C: **0.81 g/cm<sup>3</sup>**

### Half life time

in chlorobenzene:

| t <sub>1/2</sub> | 10h         | 1h          | 1min         |
|------------------|-------------|-------------|--------------|
| bei              | <b>57°C</b> | <b>75°C</b> | <b>111°C</b> |

### Storage

Maximum storage temperature (Ts max): **-5°C**  
Storage stability as from date of delivery: **3 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:                  | 40°C | SADT in IBC:                  | 25°C |
| Emergency temperature: | 35°C | Emergency temperature in IBC: | 15°C |
| Control temperature:   | 30°C | Control temperature in IBC:   | 10°C |

The SADT (Self Accelerating Decomposition Temperature) 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. The control temperature is the maximum temperature at which the product can be transported safely.

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### Application

Polymerization of ethylene:

PEROXAN PPV-25 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: 150 to 200°C

Light-off temperature at 2300 bar: 162°C

### Packaging

**20kg container**

**900kg IBC**

Bulk delivery of PEROXAN PPV-25 in a 1,25 m<sup>3</sup> stainless steel intermediate bulk container (IBC) is possible in a number of countries.

### Major decomposition products

**Isobutane, isobutene, 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 PPV-25. 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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