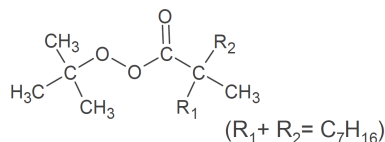


PEROXAN PND-25

Peroxyester / Polymerization

Description

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



Molecular weight: **244.4**
CAS No.: **26748-41-4**

Technical data

Appearance: **clear liquid**
Peroxide assay: **appx. 25%**
Active oxygen assay: **appx. 1.64%**

Half life time

in chlorobenzene:

t _{1/2}	10h	1h	1min
bei	46°C	64°C	101°C

Storage

Maximum storage temperature (Ts max): **-10°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:	20°C	SADT in IBC:	15°C
Emergency temperature:	10°C	Emergency temperature in IBC:	5°C
Control temperature:	0°C	Control temperature in IBC:	-5°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.

PEROXAN PND-25

Peroxyester / Polymerization

Application

Polymerization of ethylene:

PEROXAN PND-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: 130 to 190°C

Light-off temperature at 2300 bar: 147°C

Packaging

25kg container

900kg IBC

Bulk delivery of PEROXAN PND-25 in a 1,25 m³ stainless steel intermediate bulk container (IBC) is possible in a number of countries.

Major decomposition products

Isomers of neononane, 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 PND-25. 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.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.