

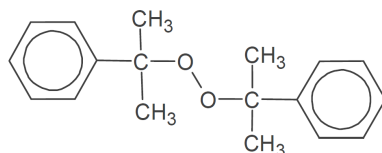
PEROXAN DC

Dialkyl peroxide / Polymerization

Description

Dicumyl peroxide
99%, Crystallin

PEROXAN DC is used for the (co)polymerization of styrene. It may also be used as co-agent in the production of flame retardant, expandable polystyrene



Molecular weight:
CAS No.:

270.4
80-43-3

Technical data

Appearance:
Peroxide assay:
Active oxygen assay:
Bulk density at 20°C:

white crystals
min. 99%
min. 5.86%
620 kg/m³

Half life time

in chlorobenzene:

$t_{1/2}$	10h	1h	1min
bei	112°C	132°C	172°C

Storage

Maximum storage temperature (Ts max):
Storage stability as from date of delivery:

30°C
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: 80°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 DC may be used for the polymerization and copolymerization of styrene. In a mass process PEROXAN DB can be used to increase polymerization rates.

Temperature range: 110 to 165°C

Dosing: 0,02 to 0,1 phr

Coagent in flame retardant polystyrene:

Polystyrene is made flame retardant by the use of halogen-containing additives such as hexabromocyclododecane (PERGASAFE HBCD). PEROXAN DC may be used as a synergistic coagent in combination with PERGASAFE HBCD to produce flame retardant expandable polystyrene.

Packaging

20kg cardboard box

Major decomposition products

2-Phenylpropanol-2, acetophenone, alpha-methylstyrene, Methane

Safety and handling

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