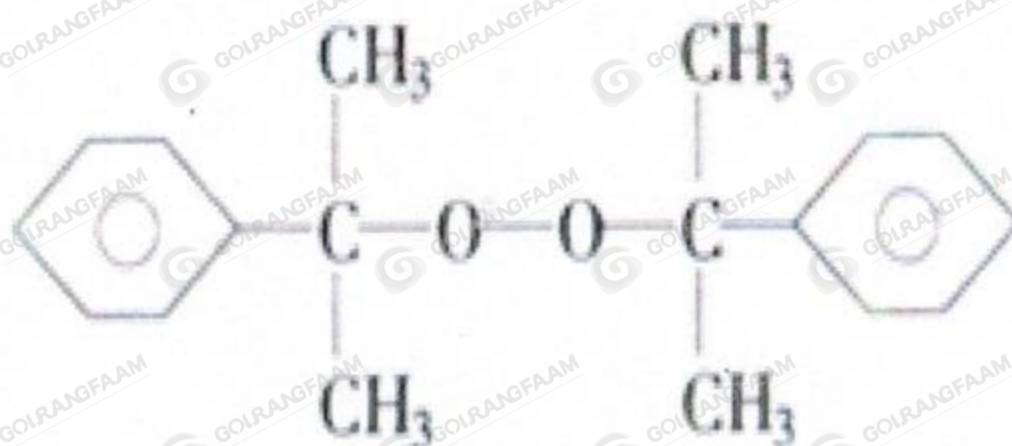


# TECHNICAL DATA SHEET

## Description:

**Dicumyl peroxide**  
99%, Crystals

DICUMYL PEROXIDE 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:**

270,4

**CAS No.:**

80-43-3

## Technical data:

**Appearance:**

white crystals

**Peroxide assay:**

min. 99%

**Active oxygen assay:**

min. 5.86%

**Bulk density at 20°C:**

620 kg/m<sup>3</sup>

## Half life time:

in chlorobenzene:

t<sub>1/2</sub>

10h

1h

1 min

at

112°C

132°C

172°C

## Storage:

**Maximum storage temperature (T<sub>s max</sub>):**

30°C

**Storage stability as from date of delivery:**

6 months

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.

## Thermal stability:

**SADT:**

80°C

**Emergency temperature (T<sub>em</sub>):**

75°C

The SADT 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.

# TECHNICAL DATA SHEET

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**Application:**

**Polymerization of styrene:**

**DICUMYL PEROXIDE may be used for the polymerization and copolymerization of styrene. In a mass process DICUMYL PEROXIDE 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. DICUMYL PEROXIDE may be used as a synergistic coagent in combination with hexabromocyclododecane to produce flame retardant expandable polystyrene.**

**Packaging:**

**20 kg Cardboard box**

**Major decomposition products:**

**Methane, Acetophenone, 2-Phenylpropanol-2**

**Safety and handling:**

**Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of DICUMYL PEROXIDE. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.dcpaa.com.cn](http://www.dcpaa.com.cn) or through contacting **TC** directly.**