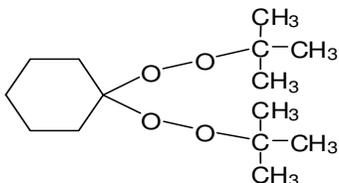


## CH-50-WO

1,1-Di(tert.-butylperoxy)cyclohexane  
CAS#3006-86-8  
50%, solution in white oil  
Molar mass: 260.4 g/mol

### Structural Formula



### Description

Colourless, mobile liquid, consisting of approx. 50% 1,1-Di(tert.butylperoxy)cyclohexane, de-sensitized with white oil. This cycloaliphatic peroxide is used as an initiator (radical source) for the polymerisation of monomers (e.g. styrene).

### Technical Data

Appearance	colourless liquid
Peroxide content	approx. 50% w/w
Active oxygen	approx. 6.14%
De-sensitising agent	w/w white oil
Density at 20 °C	approx. 0.90 g/cm <sup>3</sup>
Viscosity at 20 °C	approx. 33 mPa·s
Refractive index at 20 °C	approx. 1.454
Critical temperature (SADT)	approx. 70 °C
Cold storage stability	to below -20 °C
Recommended storage temperature	below 30 °C
Storage stability (activity) as from date of delivery	6 months

This product is in compliance with the ElektroG (EU-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

### Half-life-time:

10 h/1 h/1 min. (0.1 m/isododecane): 97/117/160 °C

## Application

### STYRENE:

Initiator for the polymerisation of styrene in bulk or solution.

Temperature range: 100-140°C.

Usage level: 0.02-0.1% as supplied.

Particular advantage: Reduced residual monomer contents, no reaction with chain-modifiers (e.g. mercaptanes), no hydrolysis in alkaline media.

We recommend the combination with more active peroxides (e.g. tert. Butylperoxy 2-ethylhexanoate).

Further information on suitable initiators for the polymerisation of monomers is given in our application brochures on this subject.

## Standard Packaging

25kg in HDPE canisters

## Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

Application and usage of our products based on our technical advice is out of our control and sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application.

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