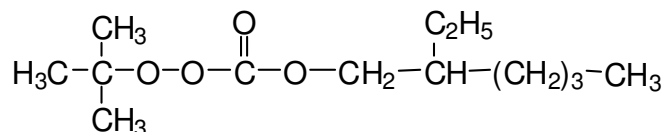


TBPEHC

tert. Butylperoxy-(2-ethylhexyl)carbonate
CAS#34443-12-4
Molar mass: 246.4 g/mol
Liquid, technically pure

Structural Formula



Description

Colourless, mobile liquid, consisting of technically pure tert. Butylperoxy-(2-ethylhexyl) carbonate. This thermally stable mono-perester of the carbonic acid is used as an initiator (radical source) in the polymerisation of monomers (SM), curing of unsaturated polyesters (UP) and the crosslinking of polymers (EVA).

Technical Data

Appearance	colourless liquid
Peroxide content	ca. 99 % w/w
Active oxygen	ca. 6.43 % w/w
De-sensitising agent	none
Density at 20 °C	ca. 0.93 g/cm ³
Viscosity at 20 °C	ca. 6 mPa•s
Refractive index at 20 °C	ca. 1.428
Critical temperature (SADT)	ca. 70 °C
Cold storage stability	to below -30 °C
Recommended storage temperature	max. 20 °C
Storage stability (activity) as from Date of delivery	3 months

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

Half-life Data

10h/1h/1min (0.1 m / benzene): 100/122/175 °C

Application

STYRENE:

An initiator for the polymerization of styrene (SM) in bulk or suspension. It is often applied in combination with Dibenzoylperoxide (BPO) in suspension or tert. Butylperoxy-2-ethylhexanoate (TBPEH) in bulk polymerisation.

Temperature range: 100 – 140 °C.

Usage levels: 0.02 – 0.1 % as supplied.

Advantage: significant reduction of residual monomer content in the polymer, no aromatic decomposition products

Packaging

25kg in HDPE canister.

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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