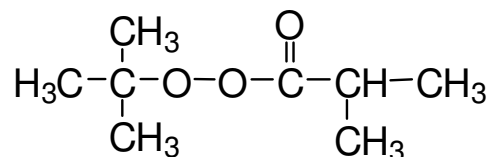


TBPIB-50-AL

tert. Butyl-peroxy-isobutyrate
CAS#109-13-7
Molar mass: 160.2 g/mol
50%, solution in aliphatics

Structural Formula



Description

Colourless, mobile liquid, consisting of ca. 50% w/w tert. Butyl-peroxy-isobutyrate, desensitized with aliphatic hydrocarbons. This branched, aliphatic perester is used as an initiator (radical source) in the polymerisation of monomers e.g. ethylene.

Technical Data

Appearance	colourless liquid
Peroxide content	approx. 50 % w/w
Active oxygen	approx. 5.04 % w/w
De-sensitising agent	aliphatics
Density at 20 °C	approx. 0.82 g/cm ³
Viscosity at 20 °C	approx. 1 mPa·s
Refractive index at 20 °C	approx. 1.414
Critical temperature (SADT)	approx. 30 °C
Cold storage stability	liquid to below -25 °C
Recommended storage temperature	max. 10 °C
Maximum transport temperature	15 °C
Storage stability (activity) as from date of 3 months delivery	

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

Half-life Data

10 h/1 h/1 min (0.1 m/isododecane): 77 °C / 96 °C / 135 °C

Application

ETHYLENE:

Initiator for the high pressure polymerisation of ethylene. Temperature range: 160-250 °C. A wider temperature range can be obtained by

combination with other peroxides of different activity.

OTHER MONOMERS:

Initiator for the polymerisation of other monomers, such as (meth-)acrylates, styrene and many others, if necessary in combination with more stable peresters. Temperatur range: 80-150 °C, usage level: 0,1-1.5% as supplied.

Standard Packaging

20 kg 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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