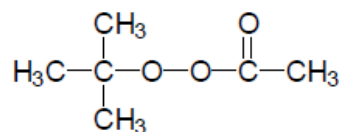


TBPA-50-AL1

tert. Butylperoxyacetate
CAS#107-71-1
50 %, solution in aliphatics



Molar mass: 132.2

Description

Colorless, mobile liquid, consisting of ca. 50 % w/w tert.butylperoxyacetate, desensitized with aliphatic hydrocarbons. This aliphatic perester is used as an initiator (radical source) in the polymerization of monomers, e.g. ethylene and styrene.

Technical Data

Appearance	Colorless to pale liquid
Peroxide Content	ca. 50% w/w
Active oxygen	ca. 6.1% w/w
De-sensitizing agent	Aliphatics (b.p > 170 °C)
Density at 20 °C	ca. 0.84 g/ cm ³
Viscosity at 20 °C	ca. 1 mPa•s
Refractive index at 20°C	ca. 1.411
Half-life time: 10h/1h/1min (0.1 m / benzene)	102°C / 121°C / 160°C
Critical temperature (SADT)	ca. 70°C
Cold storage stability	to below -15°C
Recommended storage temperature	-10 to +40°C
Maintenance of activity as from date of delivery	3 months

Application

ETHYLENE: Initiator for the high-pressure polymerization of ethylene in combination with other peroxides of varying degrees of activity. Temperature range: 190-240°C. Particular advantages: highly efficient.

STYRENE: Initiator for the polymerization of styrene in bulk or suspension. Temperature range: 100-140°C. Usage levels: 0.02-0.1% as supplied. Advantage: reduction of residual monomer content in the polymer, benzene-free replacement for tert.butylperoxybenzoate. Combination with more active peresters, e.g. tert.butylperoxy-2-ethylhexanoate can be recommended.

OTHER MONOMERS: Initiator for the polymerization of (meth-) acrylates and acrylic resins for paints. Temperature range: 100°C – 160°C. Usage level: 1-3% as supplied.

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.

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United Initiators
EU
T: +49 89 74422 237
F: +49 89 74422 6237
cs-initiators.eu@united-in.com

United Initiators
Nafta
T: +1 800 231 2702
F: +1 440 323 0898
cs-initiators.nafta@united-in.com

United Initiators
China
T: +86 20 6131 1370
F: +86 139 2503 8952
cs-initiators.cn@united-in.com

United Initiators
Australia
T: +61 2 9316 0046
F: +61 2 9316 0034
cs-initiators.au@united-in.com