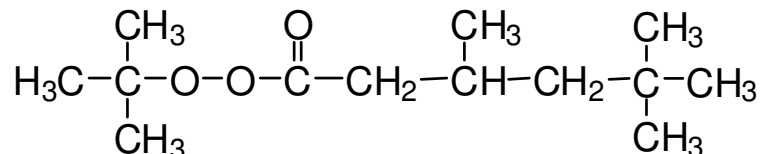


## TBPIN-60-AL

tert. Butylperoxy-3,5,5-trimethylhexanoate  
CAS#13122-18-4  
60%, solution in aliphatics  
Molar mass: 230.3 g/mol

### Structural Formula



### Description

Colourless, mobile liquid, consisting of approx. 60% tert. Butylperoxy-3,5,5-trimethylhexanoate, desensitized with high-boiling aliphatic hydrocarbons. This branched, aliphatic perester is used as an initiator (radical source) in the polymerisation of monomers, particularly ethylene. This product is offered in intermediate bulk container (IBC).

### Technical Data

Appearance	colourless liquid
Peroxide content	ca. 60 % w/w
Active oxygen	ca. 4.18 % w/w
De-sensitising agent	aliphatics
Density at 20 °C	ca. 0.83 g/cm <sup>3</sup>
Viscosity at 20 °C	ca. 2 mPas
Refractive index at 20 °C	ca. 1.425
Critical temperature (SADT) in IBC	60 °C
Cold storage stability	liquid to below -25 °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 (E U-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

### Half-life-time

10 h/1 h/1 min (0.1 m/benzene): 100/119/160 °C

## Application

### ETHYLENE:

Initiator for the high pressure polymerisation of ethylene (LDPE) in combination with other peroxides of different activity.

Temperature range: 150-240 °C.

Particular advantages: highly efficient, no aromatic decomposition products.

TBPIN is often applied as replacement for tert. Butylperbenzoat (TBPB) in order to avoid benzene as decomposition product

## Standard Packaging

740kg plastics IBC

920kg stainless steel IBC

## 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.

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

[www.united-initiators.com](http://www.united-initiators.com)