

TBPND

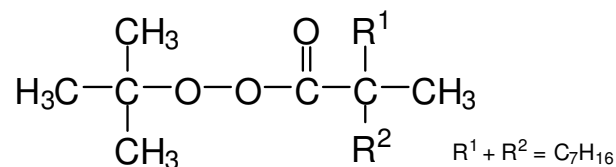
tert. Butylperneodecanoate

CAS#26748-41-4

Molar mass: 244.4 g/mol

Liquid, technically pure

Structural Formula



Description

Colourless, mobile liquid, consisting of technically pure tert.butylperneodecanoate. This branched, aliphatic perester is used as an initiator (radical source) for the polymerisation of monomers, e.g. ethylene, vinyl chloride, vinyl acetate and in chemical synthesis.

Technical Data

| | |
|---|--------------------------------|
| Appearance | colourless mobile liquid |
| Peroxide content | approx. 99 % w/w |
| Active oxygen | approx. 6.41 % w/w |
| De-sensitising agent | none |
| Density at 20 °C | approx. 0.90 g/cm ³ |
| Viscosity at 20 °C | approx. 6 mPa·s |
| Refractive index at 20 °C | approx. 1.437 |
| Critical temperature (SADT) | approx. 15 °C |
| Cold storage stability | to below -25 °C |
| Recommended storage temperature | below -10 °C |
| Maximum transport temperature | -5 °C |
| Storage stability (activity) as from date of delivery | 3 months |

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/benzene): 47 / 64 / 100 °C

Application

ETHYLENE:

Initiator for the high pressure polymerisation of ethylene in combination with thermally more stable peroxides.

Temperature range: 120-180°C.

Particular advantages: Liquid, easily miscible with high-boiling aliphatics, highly efficient.

VINYLCHLORIDE:

Initiator for mass or suspension polymerisation of vinylchloride (VCM).
Temperature range: 50-65°C.

Usage level: 0.05-0.15% as supplied.

Particular advantages: non-oxidising, liquid, therefore easy to dose, high activity. A constant rate of polymerisation can be achieved in combination with other, thermally more stable peroxides.

OTHER MONOMERS:

Initiator for the polymerisation in mass, suspension or solution of acrylnitrile, (meth-)acrylates, and vinylacetate.

Temperature range: 50-80°C.

Usage level: 0.04-0.1% as supplied.

In combination with thermally more stable peroxides the residual monomer content in the polymer can be reduced.

OTHER APPLICATIONS:

Radical source for chemical synthesis, where highly active radicals are required.

Standard 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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