Perovion®

Product Name : Perovion® DTBP L-B

CAS number : 110-05-4

Chemical Type : Di-tert-butyl peroxide

Business Unit : Organic Peroxides

1. Product Description

Perovion® DTBP L-B is a high-purity dialkyl organic peroxide supplied as a clear liquid. It is an efficient initiator for free-radical polymerization and crosslinking processes at elevated temperatures and is commonly used alone or in combination with other peroxides to achieve a broad reactivity profile.

2. Typical Applications

- LDPE production (tubular and autoclave processes)
- Styrene polymerization and copolymerization
- Polymer crosslinking
- Selected acrylic polymerization applications

In practice, Perovion® DTBP L-B is often combined with other peroxides of differing activities to optimize reactor efficiency and reduce residual monomer levels, subject to process design.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Clear liquid	Visual
Assay	%	≥99.0	Internal
Active oxygen content	%	~10.9	Internal
Density (20 °C)	g/cm³	~0.80	Internal
Viscosity (20 °C)	mPa·s	~0.9	Internal
Color	Pt-Co	≤30	Internal

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Property	Unit	Typical Value	Test Method
Hydroperoxides (as	%	≤0.10	Internal

Note: Typical values are indicative only and do not constitute a specification.

4. Recommended Use

The dosage and use conditions of Perovion® DTBP L-B depend on polymer system, processing temperature, and reactor design. Initiator selection and concentration should be evaluated and validated by the user prior to production use. Standard organic peroxide handling procedures must be followed.

5. Packaging & Logistics

Perovion® DTBP L-B is supplied in standard industrial liquid packaging formats, subject to confirmation at the quotation stage.

Minimum order quantities depend on packaging configuration and destination requirements.

- Incoterms: FOB / CFR / CIF (as specified in the quotation)

Lead time: Indicative lead time provided at quotation and confirmed upon order acceptance

6. Quality & Documentation

Each batch of Perovion® DTBP L-B is released under Innovexar Quality Assurance standards and is accompanied by a batch-specific Certificate of Analysis (COA).

Safety Data Sheets (SDS) and relevant transport documentation are provided in accordance with destination regulatory requirements. Full batch traceability is maintained through digitized QA documentation systems.

7. Handling & Storage

Perovion® DTBP L-B should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.

- Recommended storage temperature range: ~−30 °C to 40 °C

Avoid contact with reducing agents, acids, alkalis, amines, or heavy metal compounds. Refer to the SDS for detailed safety and handling instructions.

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