Perovion®

Product Name : Perovion® TBPB LC

CAS number : 614-45-9

Chemical Type : Tert-Butyl Peroxybenzoate

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBPB LC is a tert-butyl peroxybenzoate (TBPB) organic peroxide designed for high-temperature polymerization and co-polymerization processes. It is suitable for applications requiring controlled radical generation at elevated temperatures and is commonly used as part of multi-peroxide systems to optimize polymerization efficiency and residual monomer reduction.

2. Typical Applications

Perovion® TBPB LC is typically used in polymer production processes such as styrenics polymerization and high-pressure polyethylene polymerization. It is suitable for use in autoclave and tubular reactor systems and may be applied alone or in combination with other organic peroxides to achieve a broader effective temperature range. Actual suitability depends on reactor design, formulation strategy, and operating conditions applied by the user.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Liquid	Visual
Active oxygen content	%	~8.1–8.2	Internal Method
Assay	%	≥98	Internal Method
Density (20 °C)	g/cm³	~1.04	ASTM D4052
Viscosity (20 °C)	mPa·s	~6.5	Internal Method
Crystallization point	°C	~8	Internal Method

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

4. Recommended Use

Perovion® TBPB LC is intended for use in high-temperature polymerization systems. Dosage level, peroxide combinations, and temperature profiles should be determined and validated by the user based on specific process requirements. Standard organic peroxide handling procedures must be followed. Detailed guidance on safe handling and storage is provided in the Safety Data Sheet (SDS).

5. Packaging & Logistics

Perovion® TBPB LC is supplied in standard industrial packaging formats, subject to confirmation at the quotation stage. Minimum order quantities depend on packaging configuration and destination requirements. The product is offered under standard Incoterms such as FOB, CFR, or CIF, as specified in the quotation. Indicative lead times are provided at quotation and confirmed upon order acceptance.

6. Quality & Documentation

Each batch of Perovion® TBPB LC is released under Innovexar Quality Assurance standards and is accompanied by a batch-specific Certificate of Analysis (COA). Safety Data Sheets 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® TBPB LC should be stored in its original, tightly closed containers, away from heat sources and direct sunlight. Storage temperatures should be maintained within recommended limits to preserve product integrity. Contamination must be avoided, and peroxide-specific safety procedures should be strictly observed during handling and storage. Refer to the SDS for detailed safety instructions.

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