Perovion®

Product Name : Perovion® TBHP L70

CAS number : 75-91-2

Chemical Type : tert-Butyl Hydroperoxide (TBHP), 70% aqueous solution

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBHP L70 is a tert-butyl hydroperoxide (TBHP) initiator supplied as a 70% solution in water. It is designed for radical initiation in polymerization and co-polymerization processes, particularly where controlled initiation and aqueous compatibility are required. The product is suitable for use across a wide temperature range depending on formulation and process design.

2. Typical Applications

Perovion® TBHP L70 is a tert-butyl hydroperoxide (TBHP) initiator supplied as a 70% solution in water. It is designed for radical initiation in polymerization and co-polymerization processes, particularly where controlled initiation and aqueous compatibility are required. The product is suitable for use across a wide temperature range depending on formulation and process design.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Liquid	Visual
Appearance	–	Clear, colorless	Visual
Assay	%	~69–71	Internal Method
Active oxygen content	%	~12.3–12.6	Internal Method
Density (25 °C)	g/cm³	~0.94	ASTM D4052
Viscosity (20 °C)	mPa·s	~4.1	Internal Method

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

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4. Recommended Use

Perovion® TBHP L70 is intended for use as a free-radical initiator in polymerization systems. Initiator concentration, temperature profile, and residence time should be determined and validated by the user based on specific formulation and equipment 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® TBHP L70 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® TBHP L70 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® TBHP L70 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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