Perovion®

Product Name : Perovion® TBPP L25-75

CAS number : 927-07-1

Chemical Type : tert-Butyl peroxypivalate

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBPP L25-75 is a liquid perester organic peroxide supplied as an approximately 75% solution in an inert hydrocarbon carrier. It is an efficient initiator for LDPE production in both tubular and autoclave processes and is also suitable for PVC suspension polymerization within a moderate temperature range.

2. Typical Applications

- High-pressure ethylene polymerization (LDPE)
- Tubular and autoclave processes
- Suspension polymerization of vinyl chloride (PVC)
- Typical temperature range: ~50–70 °C
- Selected polymer production and acrylic applications

In practice, Perovion® TBPP L25-75 is often used in combination with peroxides of different reactivities to achieve a broad polymerization temperature window and optimize reactor efficiency.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Clear liquid	Visual
Assay	%	74.0 – 76.0	Internal
Active oxygen (total)	%	6.79 – 6.98	Internal
Active oxygen (peroxide)	%	~9.18	Calculated
Color	Pt-Co (APHA)	≤20	Internal

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Property	Unit	Typical Value	Test Method
Density (0 °C)	g/cm³	~0.875	Internal
Viscosity (20 °C)	mPa·s	~2.1	Internal
Hydroperoxides (as	%	≤0.099	Internal
Hydrolysable chloride	mg/kg	≤100	Internal
Molecular weight (active)	–	174.2	Calculated

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

4. Recommended Use

Perovion® TBPP L25-75 is typically selected for LDPE polymerization and PVC suspension polymerization where controlled initiation at moderate temperatures is required. Initiator combinations, dosage, and temperature profiles should be evaluated and validated by the user prior to production use.

5. Packaging & Logistics

Perovion® TBPP L25-75 is supplied in standard industrial liquid packaging formats (e.g., 30-L HDPE cans, ~25 kg peroxide solution), subject to confirmation at the quotation stage.

6. Quality & Documentation

Each batch of Perovion® TBPP L25-75 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® TBPP L25-75 should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.
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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