Perovion®

Product Name : Perovion® CPND L99-75

CAS number : 26748-47-0

Chemical Type : Cumyl peroxyneodecanoate

Business Unit : Organic Peroxides

1. Product Description

Perovion® CPND L99-75 is a liquid organic peroxide supplied as an approximately 75% solution in isododecane. It is an efficient initiator for free-radical polymerization processes and is widely used in LDPE production as well as vinyl chloride polymerization, where controlled initiation at moderate temperatures is required.

2. Typical Applications

- Low Density Polyethylene (LDPE) production
- Tubular and autoclave processes
- Suspension and mass polymerization of vinyl chloride (PVC)
- Typical temperature range: ~40–65 °C
- Selected vinylidene chloride and related copolymer systems

In practice, Perovion® CPND L99-75 is often used in combination with peroxides of different reactivity to broaden the effective polymerization temperature window and improve 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)	%	3.86 – 3.97	Internal
Active oxygen (peroxide)	%	~5.22	Calculated

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Property	Unit	Typical Value	Test Method
Color	Pt-Co (APHA)	≤30	Internal
Density (–10 °C)	g/cm³	~0.962	Internal
Viscosity (–10 °C)	mPa·s	~74.6	Internal
Hydroperoxides (as CHP)	%	≤0.15	Internal
Hydrolysable chloride	mg/kg	≤150	Internal
Molecular weight (active)	–	306.4	Calculated

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

4. Recommended Use

Perovion® CPND L99-75 is typically used as an initiator for LDPE polymerization and PVC suspension or mass polymerization where moderate-temperature initiation and good control of reaction rate are required. Initiator combinations, dosage, and temperature profiles should be evaluated and validated by the user prior to production use.

5. Packaging & Logistics

Perovion® CPND L99-75 is supplied in standard industrial liquid packaging formats (e.g., HDPE containers or 30-L cans), 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® CPND L99-75 is released under Innovexar Quality Assurance standards and is accompanied by a batch-specific Certificate of Analysis (COA).

7. Handling & Storage

Perovion® CPND L99-75 should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.

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