

Perovion®

Product Name : Perovion® DEHP L14

CAS number: 13052-09-0

Chemical Type : 2,5-Dimethyl-2,5-di(2-ethylhexanoylperoxy)hexane

Business Unit : Organic Peroxides

1. Product Description

Perovion® DEHP L14 is a bifunctional diacyl organic peroxide supplied as a clear liquid. It is designed for suspension polymerization processes and offers an activity comparable to benzoyl peroxide, while enabling higher polymer molecular weights at similar operating conditions, which can support reduced polymerization time for equivalent targets.

2. Typical Applications

- Suspension polymerization of styrene (typical ~90 °C)
- Selected polymer production and thermoset composite applications

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Clear liquid	Visual
Assay	%	≥92.0	Internal
2,5-dihydroperoxy-2,5-dimethylhexane	%	≤2.2	Internal
Color	Pt-Co (APHA)	≤20	Internal
Hydrolysable chloride (inorg. + org.)	mg/kg	≤100	Internal
Density (20 °C)	g/cm³	~0.956	Internal
Viscosity (20 °C)	mPa·s	~80	Internal

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

4. Recommended Use

Perovion® DEHP L14 is typically selected for styrene suspension polymerization where higher molecular weight development is desired at comparable reactivity to BPO systems. Dosage and process conditions should be evaluated and validated by the user prior to production use. Standard organic peroxide handling procedures must be followed.

5. Packaging & Logistics

Perovion® DEHP L14 is supplied in standard industrial liquid packaging formats (e.g., 30-L HDPE cans, ~25 kg), subject to confirmation at the quotation stage.

- 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® DEHP L14 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® DEHP L14 should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.

- Recommended maximum storage temperature (Ts max.): ≤15 °C

Avoid contact with reducing agents (e.g., amines), acids, alkalis, and heavy metal compounds (e.g., accelerators, driers, metal soaps). Refer to the SDS for detailed safety and handling instructions.