



Low-cumene organic peroxide blends

We are excited to introduce our range of low-cumene organic peroxide blends – a more sustainable alternative to traditional cumyl hydroperoxide-based systems that use cumene as a solvent.

Cumene has recently been reclassified as Carcinogenic Category 1B. Despite this, it is still widely used as a raw material and solvent, and is therefore present in many organic peroxide formulations.

We have taken a proactive approach by developing a range of low-cumene peroxides. These innovative products avoid this carcinogenic classification and associated labelling, helping you meet stricter safety and sustainability requirements without compromising performance.

**Your partner
in essential solutions
for a sustainable future**

Nouryon

The new low-cumene range includes:

Trigonox® K-LC

A technically pure (92%) cumyl hydroperoxide designed for reliability and performance in demanding applications. Trigonox® K-LC is the low-cumene (<0.1%) version of Trigonox® K-90 and offers the same reactivity and processing behavior.

Benefits

- Ideal for curing thick laminates
- Widely used in the hardening of acrylic adhesives
- Suitable as an initiator for:
 - Room-temperature cure of promoted UP and VE resins
 - Elevated-temperature cure of non-promoted resins
- Specially developed for curing vinyl ester resins in combination with a cobalt accelerator

Trigonox® K-LC has been proven to perform on par with Trigonox® K-90. It can also replace Trigonox® K-80, with dosage levels adjusted proportionally downward.

Trigonox® 239 LC

Cumyl hydroperoxide with a built-in promoter for boosted reactivity. The recommended choice for curing vinyl ester resins, offering gas-free curing and excellent mechanical properties in the final product.

Trigonox® 239C LC

Is a fine-tuned formulation of Trigonox® 239, modified with a small amount of TBPB (Trigonox® C). When the peak exotherm during curing reaches sufficiently high levels, it delivers a more efficient cure compared to Trigonox® 239 alone.

Trigonox® 249 VRN LC

This is a blend of MEKP and cumyl hydroperoxide, specially developed for curing thick laminates while maintaining a low peak exotherm.

The VRN grade contains a red color indicator that disappears during cure, turning completely colorless. This visual aid is particularly valuable in infusion and spray-up applications, clearly showing that the peroxide has been properly added to the resin.

Trigonox® 289-IN VRN LC

This is a similar grade as Trigonox® 249 VRN LC but with a higher reactivity and is typically used for example for the structural part of wind turbine blades.

All grades in this low-cumene range are supplied to the European market from our dedicated production facility in Mons.

For more information, check [nouryon.com](https://www.nouryon.com)