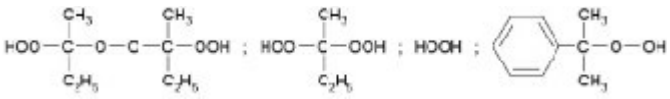
Trigonox 249 VR

Methyl ethyl ketone peroxide



Special peroxide blend with a VR system, suitable for curing unsaturated polyester and vinylester resins at ambient conditions in conjunction with a metal accelerator. Produces lower exotherms than standard MEKP's and is useful in warm and hot weather climates. Applications include cast polymer and thick laminates.

CAS number
1338-23-4, 80-15-9

EINECS/ELINCS No.
215-661-2; 201-254-7

TSCA status
listed on inventory

Specifications

Active oxygen	8.3-8.6 %
Appearance	Clear liquid

Characteristics

Density, 20 °C	1.14 g/cm^3
Viscosity, 20 °C	24.8 mPa.s

Applications

Trigonox 249 VR is a convenient pre-blended initiator suitable for curing unsaturated polyester, vinyl ester and acrylic thermosetting resins at ambient conditions in conjunction with a metal salt. Trigonox 249 VR produces lower exotherms than standard MEKP's and is useful in warm and hot weather climates. Applications include cast polymer and laminates. Trigonox 249 VR offers all the advantages of a red MEKP, except red parts. The vanishing red (VR) series of products includes a red indicator system that virtually disappears during cure. The red is there when you need it, but not in the finished product. Key features are: indicates initiator presence, monitor mixing, monitor cure by color, no more red parts.

Thermal stability

Organic peroxides are thermally unstable substances, which may undergo self-accelerating decomposition. The lowest temperature at which self-accelerating decomposition of a substance in the original packaging may occur is the Self-Accelerating Decomposition Temperature (SADT). The SADT is determined on the basis of the Heat Accumulation Storage Test.

SADT	60°C
Method	The Heat Accumulation Storage Test is a recognized test method for the determination of the SADT of organic peroxides (see Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria - United Nations, New York and Geneva).

Storage

Due to the relatively unstable nature of organic peroxides a loss of quality can be detected over a period of time. To minimize the loss of quality, Nouryon recommends a maximum storage temperature (Ts max.) for each organic peroxide product.

Ts Max.	25°C
Note	When stored under the recommended storage conditions, Trigonox 249 VR will remain within the Nouryon specifications for a period of at least 3 months after delivery.

Packaging and transport

The standard packaging is a 30 l HDPE can (Nourytainer) for 30 kg peroxide solution. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Trigonox 249 VR is classified as Organic peroxide type D; liquid, Division 5.2; UN 3105.

Safety and handling

Keep containers tightly closed. Store and handle Trigonox 249 VR in a dry well-ventilated place away from sources of heat or ignition and direct sunlight. Never weigh out in the storage room. Avoid contact with reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers and metal soaps). Please refer to the Safety Data Sheet (SDS) for further information on the safe storage, use and handling of Trigonox 249 VR. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at https://polymerchemistry.nouryon.com.

Major decomposition products

Carbon dioxide, Water, Acetic acid, Formic acid, Propionic acid, Methyl ethyl ketone, Acetophenone, 2-Phenylisopropanol, Methane

Contact Us

Europe, Middle East, India and Africa
polymerchemistry.nl@nouryon.com

Asia Pacific
polymerchemistry.ap@nouryon.com

Americas
polymerchemistry.na@nouryon.com

Nouryon