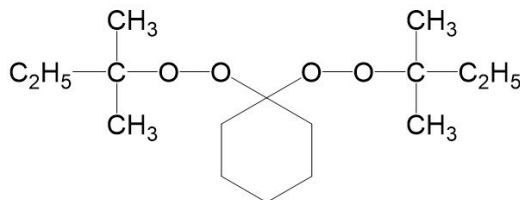


## Trigonox 122-C80

1,1-Di(tert-amylperoxy) cyclohexane, 80% solution in isododecane



Trigonox® 122-C80 may be used as an initiator for the polymerization of styrene. Trigonox® 122-C80 is a difunctional peroxide. Under equivalent reaction conditions, polymerization times may be reduced by as much as 10% when compared to those generated by monofunctional peroxides with the same activity. Trigonox® 122-C80 can be successfully applied as an initiator for the (co)polymerization of low density ethylene. Trigonox® 122-C80 may also be used as an initiator for the (co)polymerization of acrylonitrile, acrylates and methacrylates.

**CAS number**  
15667-10-4

**EINECS/ELINCS No.**  
239-741-1

**TSCA status**  
listed on inventory

**Molecular weight**  
288.4

### Specifications

Active oxygen	8.76-8.99 %
Appearance	Clear liquid
Assay	79.0-81.0 %
Color	≤ 50 Pt-Co

### Characteristics

Density, 20 °C	approx. 0.85 g/cm <sup>3</sup>
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### Applications

Trigonox® 122-C80 can be used for the market segments: polymer production and thermoset composites with their different applications/functions. For more information please check our website and/or contact us.

## 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	55°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.	30°C
Note	When stored under these recommended storage conditions, Trigonox® 122-C80 will remain within the Nouryon specifications for a period of at least 3 months after delivery.

## Packaging and transport

Trigonox® 122-C80 is packed in non-returnable 5 gallon polyethylene containers of 35 lb net weight. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Trigonox® 122-C80 is classified as Organic peroxide type C; liquid, Division 5. 2; UN 3103.

## Safety and handling

Keep containers tightly closed. Store and handle Trigonox® 122-C80 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® 122-C80. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at [nouryon.com/sds-search](http://nouryon.com/sds-search).

## Major decomposition products

Carbon dioxide, cyclohexanone, hexanoic acid, methyl hexanoate,

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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The Nouryon logo consists of a stylized blue 'N' followed by the word 'ouryon' in a lowercase, sans-serif font. The 'N' is significantly larger and more prominent than the rest of the text.