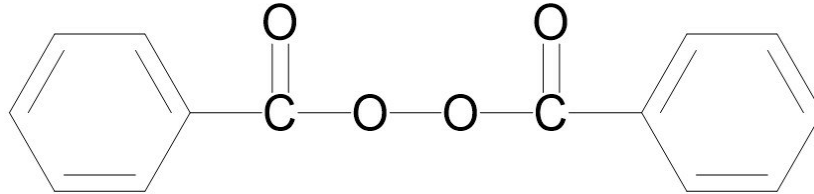


Perkadox L-W75

Dibenzoyl peroxide, 75% with water



Perkadox® L-W75 may be used for the polymerization of styrene in the temperature range of 80-100°C.

Perkadox® L-W75 may also be used for the polymerization and copolymerization of (meth)acrylonitrile, vinylacetate, tetrafluoroethylene, divinylbenzene, para-methylstyrene and diallyl phthalate.

CAS number
94-36-0

EINECS/ELINCS No.
202-327-6

TSCA status
listed on inventory

Molecular weight
242.2

Specifications

Active oxygen	4.88-5.02 %
Appearance	White granular powder
Assay	74.0-76.0 %
Inorganic + organic hydrolysable chloride	≤ 2500 mg/kg

Characteristics

Bulk density	630 kg/m ³
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Applications

Perkadox® L-W75 can be used for the market segments: polymer production, thermoset composites and acrylics production with their different applications/functions. For more information please check our website and/or contact us.

Half-life data

The reactivity of an organic peroxide is usually given by its half-life ($t_{1/2}$) at various temperatures. For Perkadox® L-W75 in chlorobenzene half-life at other temperatures can be calculated by using the equations and constants mentioned below:

0.1 hr	at 113°C (235°F)
1 hr	at 91°C (196°F)
10 hr	at 71°C (160°F)
Formula 1	$k_d = A \cdot e^{-E_a/RT}$
Formula 2	$t_{1/2} = (\ln 2)/k_d$
Ea	122.35 kJ/mole
A	6.94E+13 s ⁻¹
R	8.3142 J/mole·K
T	(273.15+°C) K

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	80°C
Emergency temperature (T_e)	75°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 (T_s max.) for each organic peroxide.

Ts Max.	40°C
Note	When stored under the recommended storage conditions, Perkadox® L-W75 will remain within the Nouryon specifications for a period of at least 3 months after delivery.

Packaging and transport

In North America Perkadox® L-W75 is packed in a non-returnable carton with a polyethylene bag containing 33.3 lb or with 3 polyethylene bags each containing 13.3 lb peroxide. In other regions the standard packaging is a cardboard box with a polyethylene bag containing 4 x 6.7 kg peroxide. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Perkadox® L-W75 is classified as Organic peroxide type C; solid, Division 5.2; UN 3104; PG II.

Safety and handling

Keep containers tightly closed. Store and handle Perkadox® L-W75 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 Perkadox® L-W75. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at nouryon.com/sds-search.

Major decomposition products

Carbon dioxide, Benzene, Benzoic acid

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.