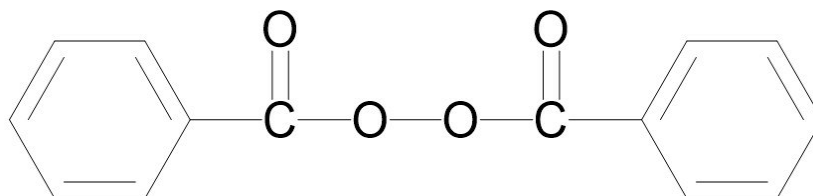


Perkadox L-W35 USP Grade

Dibenzoyl peroxide



Perkadox® L-W35 USP Grade is a free-flowing granular form of dibenzoyl peroxide suitable for use in various pharmaceutical applications including anti-acne creams, face and body washes, and shampoos.

CAS number
94-36-0

EINECS/ELINCS No.
202-327-6

TSCA status
listed on inventory

Molecular weight
242.2

Active oxygen content peroxide
6.61%

Specifications

Assay	33.0-36.0 %
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Notes:

Perkadox® L-W35 USP Grade meets USP specifications.

Applications

Perkadox® L-W35 USP Grade is a easy pumpable micronized suspension form of dibenzoyl peroxide suitable for use in various OTC pharmaceutical applications including anti-acne creams, face and body washes, and shampoos. Perkadox® L-W35 USP Grade is manufactured in accordance with U.S. current Good Manufacturing Practices and relative regulations as they apply to Bulk Pharmaceutical Chemicals.

Half-life data

The reactivity of an organic peroxide is usually given by its half-life ($t_{1/2}$) at various temperatures. The half-life of Perkadox® L-W35 USP Grade in chlorobenzene is:

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	60°C (140°F)
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 (86°F)
Note	When stored under these recommended storage conditions, Perkadox® L-W35 USP Grade will remain within the Nouryon specifications for a period of at least 12 months after production.

Packaging and transport

Perkadox® L-W35 USP Grade is packaged in closed head HDPE drums, 425 lbs. per drum. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Perkadox® L-W35 USP Grade is classified as Organic peroxide type F, liquid, Division 5.2; UN 3109.

Safety and handling

Keep containers tightly closed. Store and handle Perkadox® L-W35 USP Grade 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-W35 USP Grade. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at nouryon.com/sds-search.

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 logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.