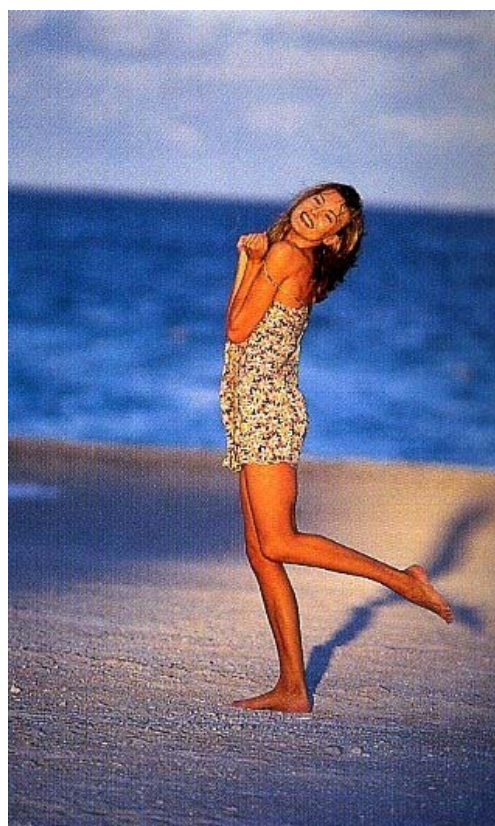


OCTOCRYLENE



Definition	Effective UV-B filter, that absorbs the dangerous UV light between 280-320 nm to protect the skin from sunburn and cancer
CAS No.	6197-30-4
EINECS No.	228-250-8
INCI name	Octocrylene
CN code	2926 909590
Synonyms	2-cyano-3,3-diphenylacrylic acid-2-ethyl-hexyl ester

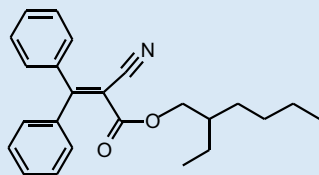
Producer CHEMSPEC CHEMICALS PVT. LTD., India



Kyowa Hakko Europe GmbH
Daiichi Fine Chemical Division

SPECIFICATION*

Chemical structure:



Molecular formula:

$C_{24}H_{27}O_2$

Molecular weight:

361,49

Appearance:

yellow, clear to slightly cloudy, viscous liquid

Odour:

characteristic

Identification $d \frac{25}{25}$:

must comply

Specific gravity $n \frac{20}{D}$:

1,045 to 1,055

Refractive index:

1,561 to 1,571

Acidity:

not more than 0,18 ml 0,1 NaOH

Purity (by GC):
any individual impurity
total impurities

not less than 98%
not more than 0,5%
not more than 2,0%

Assay (GC):

95,0% to 105,0%

*meets the quality requirements of the current USP Monograph for Octocrylene

Storage and Packaging

Storage

Store at 15°C to 40°C.
Store away from incompatible substances (strong oxidizers), in unopened original packaging (protected from sunlight).

Expiry date

24 months after production date in original packaging under adequate storage conditions

Standard packaging

200kg net per HDPE drum

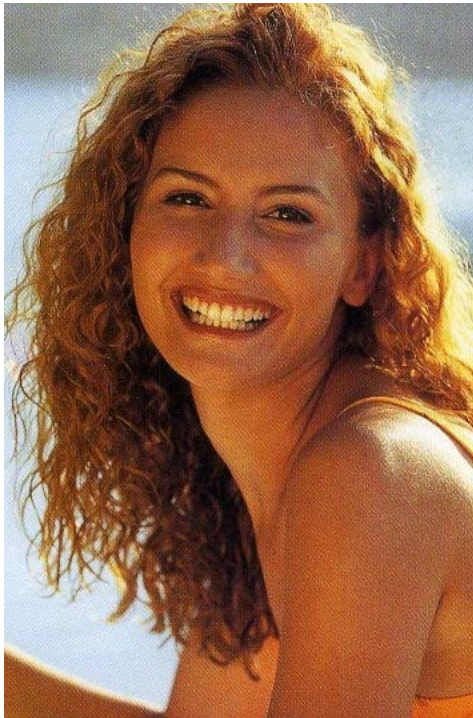
Properties

Octocrylene is a liquid, oil-soluble UV-B filter and offers additional absorption in the short-wave UV-A spectrum.

It is an excellent solubilizer for crystalline UV absorbers and due to its outstanding photostability it is used as photostabilizer for e.g. Butyl Methoxydibenzoylmethane.

This oil-soluble UV-B filter is ideal for formulation water-resistant sunscreen products.

Octocrylene is approved world-wide (maximal concentration varies according to local legislation).



Regulatory status

- EU: max. 10% expressed as acid
(listed in Council Directive 76/768/EEC, Annex VII)
- USA: up to 10% alone or 7-10% in combination with other specified
category I sunscreens (FDA/OTC Category I)
- Japan: max. 10% (listed MHLW)

The data submitted in this publication are based on our current knowledge and experience. They do not constitute a guarantee in the legal sense of the term and, in view of the manifold factors that may affect processing and application, do not relieve those to whom we supply our products from the responsibility of carrying out their own tests and experiments. Any relevant patent rights and existing legislation and regulations must be observed.



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