

Product Information

Product Data Sheet

PARSOL® MCX

Description

PARSOL® MCX is a pale yellow liquid. It may have a slight characteristic odour.
 BHT (max. 0.1%) is added as an antioxidant.

Product identification

Product code: 50 1578 4

Chemical names: 3-(4-methoxy-phenyl)-propionic acid 2-ethyl-hexyl ester; 2-ethylhexyl 3-(4-methoxyphenyl)-2-propenoate

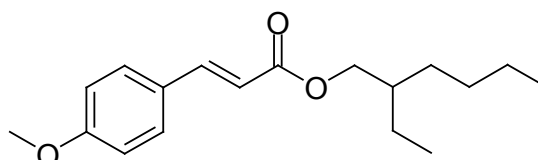
CAS No.: 5466-77-3

INCI name: Ethylhexyl Methoxycinnamate

USAN: Octinoxate

Empirical formula: C₁₈H₂₆O₃

Molecular mass: 290.4 g/mol



Specifications

Appearance:	pale yellow liquid
Assay (<i>trans</i> -Isomer):	95.0-105.0%
Identity (UV/IR):	corresponds
Specific gravity (25 °C):	1.005-1.013
Refractive index (20 °C):	1.542-1.548
Acidity (0.1N NaOH):	max. 0.8 mL
UV specific extinction: E1%, 1cm at 310nm in ethanol	835-865
Chromatographic purity:	
Each impurity	max. 0.5%
Total Impurities	max. 2.0%
<i>cis</i> -Isomer	max. 0.5%
2-Ethylhexanol:	max. 50ppm

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Heavy metals:

Lead	≤ 5 ppm
Cadmium	≤ 1 ppm
Mercury	≤ 1 ppm
Cobalt	≤ 1 ppm
Chrome	≤ 1 ppm
Nickel	≤ 1 ppm
Total	≤ 10 ppm
Arsenic:	≤ 2 ppm

Microbiological purity:

Total aerobic plate counts	≤ 100 CFU/g
Total yeast and moulds	≤ 100 CFU/g
<i>Pseudomonas aeruginosa</i>	negative in 1 g
<i>Staphylococcus aureus</i>	negative in 1 g
<i>Escherichia coli</i>	negative in 1 g
<i>Candida albicans</i>	negative in 1 g

Solubility

PARSOL® MCX is miscible with ethanol and commonly used lipids, but does not mix with water.

Stability and storage

PARSOL® MCX should be protected from light. The product may be stored for 36 months from the date of manufacture in the unopened original container and at a temperature below 25 °C. The 'best use before' date is printed on the label.

Uses

As an oil-soluble UV-B filter in sun-care and cosmetic preparations.

Compendial compliance

PARSOL® MCX meets all requirements of the USP when tested according to this compendium.

Legal notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

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Additional information

To find out more about our ingredients, please contact your nearest DSM Nutritional Products office.

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