

Product Information

Product Data Sheet

PARSOL® 1789

Product code: 5016517

Description

PARSOL® 1789 is a white to pale yellow powder with a slight aromatic odor.

Product identification

Product code: 5016517

Chemical name: 1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-propane-1,3-dione

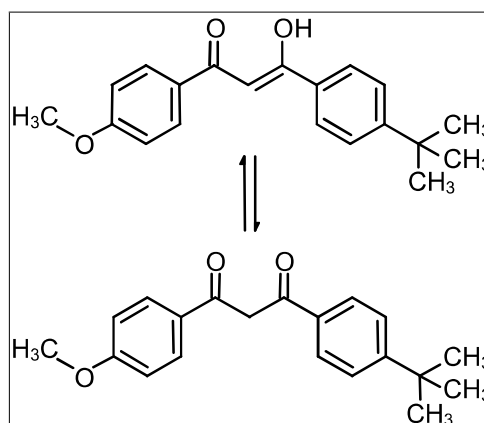
CAS No.: 70356-09-1

INCI name: Butyl Methoxydibenzoylmethane

USAN: Avobenzone

Empirical formula: C₂₀H₂₂O₃

Molecular mass: 310.4 g/mol



Specifications

Appearance:	white to pale yellow powder
Assay:	95.0 - 105.0 %
Identity (IR/GC):	corresponds
Melting point:	81.0 - 86.0 °C
Loss on drying:	max. 0.1 %
Chromatographic purity:	
Each impurity:	max. 3.0 %
Total impurities:	max. 4.5 %
UV specific extinction: E1 %, 1 cm at 357 nm in ethanol	1100 - 1180
Residual solvents:	

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Methanol	max. 300 ppm
Toluene	max. 50 ppm

Heavy metals:

Lead	≤ 1 ppm
Cadmium	≤ 0.5 ppm
Mercury	≤ 0.1 ppm
Cobalt	≤ 1 ppm
Chrome	≤ 1 ppm
Nickel	≤ 1 ppm
Antimony	≤ 1 ppm

Arsenic:	≤ 1 ppm
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Microbiological purity:

Total aerobic plate counts	≤ 100 CFU/g
Total yeast and molds	≤ 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® 1789 is insoluble in water, slightly soluble in ethanol and soluble in commonly used lipids.

Stability and storage

PARSOL® 1789 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, do not freeze. The 'best use before' date is printed on the label.

Uses

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

Compendial compliance

PARSOL® 1789 meets all requirements of the USP when tested according to this compendium.

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Regulatory status

Please refer to our Global Regulatory Status document.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene.

For full safety information and necessary precautions, please refer to the respective DSM Material Safety Data Sheet.

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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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