

Benzophenone-3 (Oxybenzone)

Oxybenzone UV-absorbing ingredient for professionally assessed formulations and permitted end uses.

CAS 131-57-7	EC 205-031-5	Transport Class 9 · UN 3077 · PG III
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Product Information

Benzophenone-3 is a benzophenone derivative commonly called oxybenzone or BP-3. The crystal grade has a minimum assay of 99.0% with limits for loss on drying, residue on ignition and heavy metals. Melting range and UV absorbance help characterize the material. Dissolution and formulation stability depend on the chosen vehicle. This ingredient is subject to destination-specific rules for cosmetic and other uses; eligibility and concentration must be checked for the finished formulation. Supply of the raw material does not establish permission to market a sunscreen or another consumer product.

UV absorbance solution conditions and the CFU sample basis are not specified in the supplied sheet. Agree these methods before ordering; the microbial entries are not represented as CFU/g without confirmation. End-use eligibility depends on the destination and finished formulation.

BP-3 uses and concentration limits vary by destination and finished formulation. Confirm current cosmetic, environmental and labeling requirements before commercial use.

Specifications

Parameter	Specification
Appearance	Light yellow crystalline powder
Assay	≥99.0 %
Melting range	62.0–65.0 °C
Loss on drying	≤0.2 %
Heavy metals, as Pb	≤5 ppm
Residue on ignition	≤0.1 %
Total mold count	<100 CFU; sample basis to be agreed
Total bacterial count	<300 CFU; sample basis to be agreed
UV absorbance E288	≥630

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₁₄ H ₁₂ O ₃
Molecular weight (component)	228.24 g/mol

Applications

Permitted cosmetic formulations: Discuss BP-3 only for uses allowed in the destination market.

UV-absorbing material systems: Evaluate the ingredient in compatible material or coating systems.

Raw-material qualification: Compare assay, melting range, residue and heavy-metal limits with your purchasing specification.

Packaging / Storage

Item	Information
Packaging	25 kg net cardboard drums.
Storage	Keep tightly closed in a cool, dry, ventilated area, away from strong oxidizers; prevent discharge to drains and waterways.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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