

Benzophenone-1 (UV-0)

Benzophenone UV absorber and chemical intermediate for qualified industrial formulations.

CAS 131-56-6	EC 205-029-4	Transport Non-dangerous goods; reference solid
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Product Information

Benzophenone-1, also called UV-0, is 2,4-dihydroxybenzophenone. The supplied two-page technical sheet controls purity, melting range, Gardner color, specific extinction, drying loss and heavy metals. Gardner color is measured in a 2% weight/volume methanol solution; the stated extinction test is at 290nm for a 1%, 1cm basis.

Specifications

Parameter	Specification
Appearance	Off-white to light-yellow crystalline powder
Purity	≥99.0 %
Melting range	142–146 °C
Gardner color, 2% w/v in methanol	≤3
Specific extinction, E _{290nm} (1%, 1cm)	≥630
Loss on drying	≤0.2 %
Heavy metals	≤5 ppm

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₁₃ H ₁₀ O ₃
Molecular weight (component)	214.22 g/mol

Applications

Polymer formulation: Evaluate benzophenone-1 in qualified polymer formulations under the intended loading and processing conditions.

Coating formulation: Assess UV-absorber compatibility in the intended industrial coating system.

Chemical intermediate: Evaluate the dihydroxybenzophenone identity in qualified chemical synthesis.

Packaging / Storage

Item	Information
Packaging	25 kg fiber drums with suitable sealed inner packaging.
Storage	Keep tightly closed in a cool, dry, shaded and ventilated place. Prevent dust exposure and contamination; separate from strong oxidizers.
Shelf life	Two years in closed original packaging under the stated storage conditions.

Company Contact

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