

# Benzophenone-2 (BP-2)

Tetrahydroxybenzophenone UV absorber for compatible polymer, coating and industrial formulation systems.

|                 |                 |                                            |
|-----------------|-----------------|--------------------------------------------|
| CAS<br>131-55-5 | EC<br>205-028-9 | Transport<br>Not regulated · ADR/IMDG/IATA |
|-----------------|-----------------|--------------------------------------------|

## Product Information

Benzophenone-2, also called BP-2, is a hydroxy-substituted benzophenone used in UV-absorbing formulations. The listed crystal grade controls assay, loss on drying, melting point and specific absorbance. Solubility and compatibility must be evaluated in the actual resin or solvent system. Color development, light stability and migration can depend on the base formulation and processing temperature. The absorbance entry is a raw-material parameter; it does not establish the weathering performance or UV protection of a finished product. Agree the analytical conditions and end-use requirements before approving bulk supply.

Color scale and absorbance solution conditions are not defined in the supplied sheet; agree the methods when ordering. Turbidity is listed as 12 NTU without a maximum/minimum sign and is not presented as a guaranteed upper limit.

## Specifications

| Parameter                        | Specification                   |
|----------------------------------|---------------------------------|
| Appearance                       | Light yellow crystalline powder |
| Assay                            | ≥99.0 %                         |
| Loss on drying                   | ≤0.5 %                          |
| Melting point                    | ≥195.0 °C                       |
| Color                            | ≤3.0                            |
| Specific absorbance A1/1, 345 nm | ≥580                            |
| Turbidity                        | 12 NTU                          |

## Typical Properties

| Property                      | Typical Value |
|-------------------------------|---------------|
| Molecular formula (component) | C13H10O5      |
| Molecular weight (component)  | 246.22 g/mol  |

## Applications

Polymer UV-absorber systems: Evaluate BP-2 in compatible polymer or resin systems where UV absorption is required.

Coatings and inks: Assess dissolution and compatibility in the intended coating or ink vehicle.

Formulation qualification: Use the assay and absorbance information for incoming-material comparison.

## Packaging / Storage

| Item       | Information                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------|
| Packaging  | 25 kg net cardboard drums.                                                                                  |
| Storage    | Store tightly closed in a cool, dry, ventilated place, protected from direct sunlight and strong oxidizers. |
| Shelf life | Two years in unopened original packaging under recommended storage conditions.                              |

## Company Contact

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