

# BENZOPHENONE



CAS Number: 119-61-9

Other Names: Benzophenone, Diphenyl ketone, Benzoylbenzene,  
Alpha-Oxoditane

Formula:  $C_{13}H_{10}O$  or  $C_6H_5COC_6H_5$

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## PRODUCT INTRODUCTION

Benzophenone is the organic compound with the formula  $(C_6H_5)_2CO$ . It is the simplest member of the class of benzophenones, being formaldehyde in which both hydrogen's are replaced by phenyl groups. Benzophenone appears as white solid with a flowery odor. Substituted benzophenones such as oxybenzone and dioxybenzone are used in sunscreen.

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White Flakes
Colour (Pt-Co)	50 Max.
Alcohol Solution	Transparent Liquid
Purity	99.89 %
Melting Point	48.0°C
Volatile	0.04%

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## APPLICATIONS

- Benzophenone can be used as a photo initiator in UV-curing applications such as inks, imaging, and clear coatings in the printing industry.
- Benzophenone prevents ultraviolet (UV) light from damaging scents and colors in products such as perfumes and soaps.
- Benzophenone can also be added to plastic packaging as a UV blocker to prevent photo-degradation of the packaging polymers or its contents. Its use allows manufacturers to package the product in clear glass or plastic (such as a PETE water bottle). Without it, opaque or dark packaging would be required.
- In biological applications, benzophenones have been used extensively as photophysical probes to identify and map peptide–protein interactions.

- Benzophenone is used as an additive in flavorings or perfumes for "sweet-woody-geranium-like notes"
- Also used in Paints, lacquers and varnish industry.

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## PACKAGING OPTIONS

Drums

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