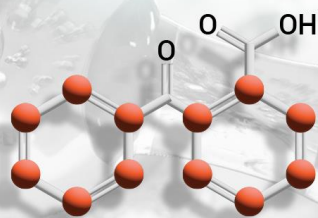


2-Benzoylbenzoic Acid



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ESSENTIAL CHEMISTRY

2-Benzoylbenzoic Acid

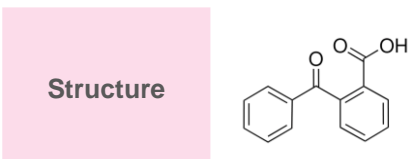
INTRODUCTION

2-Benzoylbenzoic Acid is an organic compound featuring a benzoyl group attached to a carboxylic acid group, commonly used as an intermediate in the synthesis of pharmaceuticals, dyes, and polymers, as well as for its photochemical properties in UV-absorbing formulations.

MANUFACTURE

It is synthesized through a Friedel–Crafts reaction using phthalic anhydride, benzene, and aluminum chloride, followed by purification.

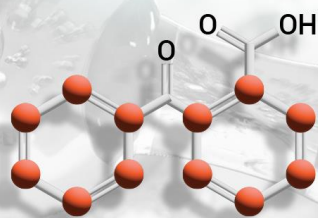
Synonym	o-Benzoylbenzoic acid, 2-Carboxybenzophenone
CAS no.	85-52-9
EINECS no.	201-612-2
Molecular formula	C ₁₄ H ₁₀ O ₃
Molecular weight	226.23



APPLICATIONS

- Serving as an intermediate in the synthesis of pharmaceutical compounds, including NSAIDs and other therapeutic agents, 2-benzoylbenzoic acid derivatives also show potential in photodynamic therapy for cancer and bacterial infections.
- It acts as a monomer in high-performance polymers like polyesters and polyamides and improves UV stability and thermal resistance when used as a plastic additive.
- 2-Benzoylbenzoic acid and its derivatives act as photo initiators in UV-cured coatings and adhesives, absorbing UV light to facilitate polymerization in industries like automotive coatings, electronics, and graphic printing.
- It serves as an electroactive material in carbon sensors for the selective detection of Cr (III) ions in pharmaceutical samples and industrial wastewater.
- 2-Benzoylbenzoic acid and its derivatives are being explored for use in organic electronics, including OLEDs, OPVs, and photovoltaic cells, because of their ability to absorb light and support charge transport.

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SPECIFICATIONS

Test	Unit	Specifications
Appearance	-	Off-white to white powder
Identification (FT-IR)	-	Corresponds to reference standard
Melting Range	°C	Between 126 to 130°C
MC by KF	% w/w	NMT 2.0
Solubility in Methanol	-	Slightly turbid solution
Sulphated ash	%	NMT 0.5
Assay (Titrimetry)	%	NLT 98 and NMT 102
Purity by HPLC	%	NLT 99
Impurity X ₁	%	NMT 0.2
Methyl-2-benzoylbenzoate+Imp X ₂	%	NMT 0.2
Other impurities	%	NMT 0.1
Benzene content	ppm	NMT 2

STORAGE

Store at room temperature in a tightly closed container in a dry, well-ventilated area.

PACKING

HDPE drums

REACH Status

Not registered

ExSyn offers 2-Benzoylbenzoic Acid on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.