

4-METHOXYACETOPHENONE (4-MAP)

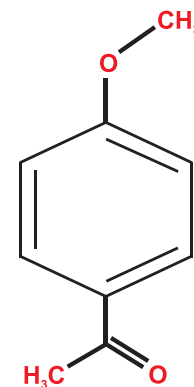
Introduction

4-Methoxyacetophenone is an aromatic chemical compound with a sweet fruity vanilla like aroma. At room temperature, 4-MAP is solid and has a white crystal like structure. Once melted, the white crystals turn into a clear liquid.

4-MAP is manufactured by acetylation of Anisole and is mainly used as a precursor for the synthesis of the cosmetic additive Avobenzone. It is also used in synthesis of active pharmaceutical ingredients, flavouring agents & perfumery products.

4-MAP may have adverse effect on human health. It is harmful if swallowed, causes skin irritation and serious eye irritation.

Chemical Identity



NAME	:4-Methoxyacetophenone
CHEMICAL NAME	:1-(4-Methoxyphenyl)ethanone
SYNONYM	: Acetanisole p-Acetylanisole
CAS NO	:100-06-1
MOLECULAR FORMULA	:C ₉ H ₁₀ O ₂
MOLECULAR WEIGHT	:150.17 g/mol

4-METHOXYACETOPHENONE (4-MAP)

Physical & Chemical Properties

Appearance	: Clear colourless liquid (above 40°C)
Odor	: Characteristic fruity odour
Purity by GC*	: Min 99 %
Melting Point	: 37-40°C
Boiling Point	: 256-260°C
Density at 25°C	: 1.1 ± 0.1 g/cm ³
Solubility in Solvents	: Soluble in Methanol, Chloroform, Ether etc.
Explosive Properties	: Non-Explosive

*Product has to be melted completely & mixed thoroughly before sampling for analysis.

*Strictly do not heat the drums above 60°C (140°F)

Uses & Applications

4-Methoxyacetophenone is used as a chemical intermediate in the manufacture of the UV-A blocker cosmetic additive, Avobenzone.

Intermediates manufactured from 4-MAP are used in the synthesis of bulk drugs such as Dextromethorphan, Raloxifene etc.

4-Methoxyacetophenone is used as a component of perfumes & a chemical intermediate in the manufacture of resins & flavouring agents.

Packaging & Shelf Life

Packed in 200 Kg HDPE drums, the product has a shelf life of one year from its manufacturing date, when kept in its original packaging. Keep the product in a tightly closed container away from light and oxidizing products.

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