

PROPIONIC ANHYDRIDE



CAS Number: 123-62-6

Other Names: Propanoic anhydride; Propionyl oxide;
Methylacetic anhydride; Propanoyl propanoate

Formula: $C_6H_{10}O_3$ or $(CH_3CH_2CO)_2O$

PRODUCT INTRODUCTION

Propionic anhydride is a colorless liquid with a pungent odor and high boiling point. It is soluble in alcohol, ether, chloroform, and alkalis, but decomposes in water. It is corrosive to metals and tissue.

PHYSICAL AND CHEMICAL PROPERTIES

Propionic Anhydride (%w/w)	98.0
Propionic Acid (%w/w)	2.0
Acetic Propionic Anhydride (%w/w)	0.30
Acetic anhydride (%w/w)	0.10
Color (Pt-Co)	20
Molar mass (g/mol)	130.1
Boiling Range at 1013hPa min 95% (v/v)	167-170
Melting Point (°C)	-42
Density at 20°C (g/cm ³)	1.01
Refractive Index at 20°C	1.403-1.405
Viscosity at 20°C (mPa.s)	1.15
Vapour Pressure at 20°C (mbar)	< 20

APPLICATION

Propionic anhydride is used as an esterifying agent for fatty acids and cellulose, for the production of alkyd resins and perfume oils, and for the introduction of the propionyl group into dyes and pharmaceuticals.

PACKAGING OPTIONS

Drums

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