

PROPIONIC ANHYDRIDE



PRODUCT IN FOCUS



Propionic Anhydride

INTRODUCTION

Propionic Anhydride is a colorless liquid having a pungent odor and high boiling point. It is miscible with most organic solvents. It is soluble in both water and alcohol.

It is a widely used reagent in organic synthesis as well as for producing specialty derivatives of cellulose.

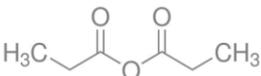
Manufacture

Industrial route to propionic anhydride involves thermal dehydration, driving off the water by distillation.

Propionic anhydride has also been prepared by dehydration of propionic acid using ketene.

Applications

- ⓧ **Pharmaceuticals:** It is used in the production of Fentanyl (pain management) & Deprodone propionate (anti-inflammatory).
- ⓧ **Agrochemicals:** It is being used as an important building block for Clethodim (herbicide).
- ⓧ **Intermediates:** Propiophenone, 6-methylcoumarin are some of the intermediates that can be synthesized from Propionic anhydride.
- ⓧ **Other:** It is used in polymers and reactive dyes. Also, used as acylating agent for cellulose acetate propionate.

Synonyms	Propanoic anhydride Methylacetic anhydride
CAS no.	123-62-6
EINECS no.	204-638-2
Molecular formula	C ₆ H ₁₀ O ₃
Molecular weight	130.14
Structure	

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Clear colorless liquid with a characteristic odor
Identification (by GC)	-	The retention time of the principle peak should correspond to the one obtained with the standard
Density at 20°C	g/ml	1.005 - 1.015
Purity (by GC)	%	Min 99.0

STORAGE

Store in original container at room temperature. Use nitrogen blanket, when part load removed.

PACKING

200 kg UN approved HDPE drum

REACH Status

Not registered yet.

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.