

VALERYL CHLORIDE



PRODUCT IN FOCUS

EXSYN[®]
ESSENTIAL CHEMISTRY

Valeryl chloride

INTRODUCTION

Valeryl chloride is an organic liquid belonging to the category – acid chloride. It is a versatile reagent in organic syntheses leading to its diverse applications such as synthesis of enzyme inhibitors, production of APIs, intermediates, and agrochemicals.

Manufacture

Valeryl chloride is produced by chlorination of valeric acid using either phosphorus trichloride or thionyl chloride.

Applications

APIS

Valeryl chloride is a KRM in production of:

- Irbesartan, an angiotensin
- Valsartan, also an angiotensin
- Dronedarone, for indication of cardiac arrhythmias
- Diflucortolone Valerate, an anti-inflammatory drug
- Pyrovalerone, a psychoactive drug

Intermediates

It also finds uses in synthesis of intermediates such as:

- 2-Bromo-1-phenyl-pentan-1-one
- Valeric anhydride
- 2-Chloropentanoyl chloride
- 1-Octen-4-one
- Phenyl valerate

Agrochemicals

- Hexaconazole, a fungicide

Others:

- Liquid crystal synthesis
- Preparation of potent inhibitor of secretory Phospholipase A2
- Enantioselective synthesis of propyl isopropyl acetamide (PID)

Synonym

Pentanoyl chloride
Valeroyl chloride

CAS no.

638-29-9

EINECS no.

211-330-1

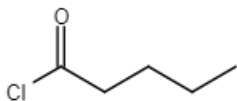
Molecular formula

C₅H₉ClO

Molecular weight

120.58

Structure





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SPECIFICATIONS

Test	Unit	Specifications
Appearance	-	Colorless to yellowish transparent liquid
N-Valeric acid	%	Max 0.3
Valeric anhydride	%	Max 0.5
Propionyl chloride	%	Max 0.02
Butyryl chloride	%	Max 0.02
Isovaleryl chloride	%	Max 0.1
Others	%	Max 0.2
Purity	%	Min 99.0

STORAGE

Stored at ambient temperature

PACKING

200 kg UN-approved drum

REACH Status

Not registered

ExSyn offers valeryl chloride 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.