

PIVALOYL CHLORIDE



PRODUCT IN FOCUS



Pivaloyl Chloride

INTRODUCTION

Pivaloyl chloride is a colorless to light yellow liquid with a pungent mustard-like odor. It hydrolyses in the presence of water. It is a reactive intermediate used in the production of agricultural chemicals and pharmaceuticals and in peroxyesters manufacturing.

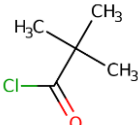
Manufacturing

It is made by reacting pivalic acid with phosphorus pentachloride.

Applications

Pivaloyl chloride is used in the production of pharmaceuticals, agrochemicals and other organic compounds. Some of them listed below:

- It is used for the synthesis of active pharmaceutical ingredients such as aminobenzylpenicilin, cephalexin, cefazolin, dipivefrin and dipivalyl epinephrine.
- It is used as a raw material in the production of synthetic acidamide medicament and phenol ester medicament.
- It is used as a precursor in the preparation of tert-butyl peroxy pivalate, guttiferon A derivatives, which is potential for the treatment of malaria.
- It is used for pesticide intermediates production, such as Chloropivaloyl chloride.
- It is also used in heavy polymerization, N-acylating agent for amines, Schiff bases, pyrrolidinones as well as an O-acylating agent for alcohols, lactones and saccharides.

Synonyms	PVCL Trimethylacetyl chloride 2,2-dimethyl propanoyl chloride Pivalic acid chloride
CAS no.	3282-30-2
EINECS no.	221-921-6
Molecular formula	C ₅ H ₉ ClO
Molecular weight	120.58
Structure	

PIVALOYL CHLORIDE



PRODUCT IN FOCUS



SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Clear liquid
Color (APHA/HAZEN)	-	Max 20.0
Identification by GC	-	Should comply
Specific gravity @ 20°C	g/cm ³	0.975 – 0.985
Free Sulphur dioxide	%	Max 0.2
Free Hydrochloric acid	%	Max 0.2
Pivalic acid	%	Max 0.2
Pivalic anhydride	%	Max 0.2
Purity (by GC)	% Area	Min 99.0

STORAGE

Stored in a dry area and at ambient temperature.

PACKING

200 kg UN approved drum.

REACH status

Pivaloyl chloride offered by ExSyn is EU REACH registered.

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.