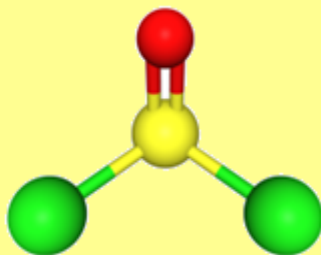


THIONYL CHLORIDE



PRODUCT IN FOCUS



Thionyl chloride

INTRODUCTION

Thionyl chloride is an inorganic compound, is a moderately volatile, colourless to pale yellow liquid with a pungent odour. It is toxic, reacts with water, and is also listed under the Chemical Weapons Convention as it may be used for the production of chemical weapons.

Manufacture

The major industrial synthesis involves the reaction of sulfur trioxide and sulfur dichloride.

Synonyms	Thionyl dichloride Sulfinyl chloride Sulfur chloride oxide Sulfur oxychloride Sulfurous dichloride Sulfurous oxychloride
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CAS no.	7719-09-7
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EINECS no.	231-748-8
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Molecular formula	SOCl ₂
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Molecular weight	119
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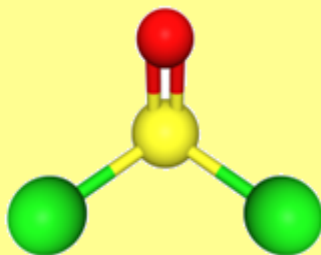
Structure	
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APPLICATIONS

Here are some important uses of Thionyl chloride.

- It is primarily utilised for the manufacturing of iso-carbophos, propargite tetramisole hydrochloride, indomethacin, and vitamin A in the pharmaceutical, pesticide, and dye industries.
- Chlorination of alcoholic hydroxyl groups, carboxylic acid chlorination, acid anhydride chlorination, and chlorine displacement of organic sulfonic acid or carboxylic acid are all examples of chlorinating agents for organic synthesis.
- It's also used to make acyl chloride and pharmaceutical intermediates like tetramisole hydrochloride and synthomycin palmitate.
- It can also be used as a solvent or a dehydrating agent.

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Colourless to pale yellow liquid
Odor	-	Suffocating odor
Purity	%	Min 99.6
Sulphur Chloride (as $\text{SCl}_2 + \text{S}_2\text{Cl}_2$)	%	Max 0.1
Sulphuryl Chloride (as $\text{SO}_2\text{Cl}_2 + \text{SO}_3$)	%	Max 0.1
Sulphur Dioxide (as SO_2)	%	Max 0.3
Iron	ppm	Max 2.0
Residue on ignition	%	Max 0.01
Distillation range	°C	95% distills between 74.0 - 78.0
Specific Gravity (at 20°C)	-	1.62 - 1.64

PACKING

300 kg UN approved drum.

STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area.

REACH Status

Thionyl chloride offered by ExSyn is registered under EU REACH regulations.

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.