

# METHANE SULFONYL CHLORIDE (MSC)



CAS Number: 124-63-0

Other Names: Mesyl chloride; Methyl sulfochloride; Chloro methyl sulfone;  
Methyl sulfonyl chloride

Formula:  $\text{CH}_3\text{ClO}_2\text{S}$

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## PRODUCT INTRODUCTION

Methanesulfonyl chloride (mesyl chloride) is an organosulfur compound with the formula  $\text{CH}_3\text{ClO}_2\text{S}$ . It is a colourless liquid that dissolves in polar organic solvents but is reactive toward water, alcohols, and many amines.

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Purity (%)	99.80
Color (APHA)	10
Water Content (ppm)	92
Fe <sup>3+</sup> (ppm)	1
Heavy Metal (ppm)	10

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## APPLICATIONS

- Methane Sulfonyl Chloride finds application in Pharmaceutical & Agrochemical synthesis.
  - It also finds application and Dyes Manufacturing.
  - The main use of methanesulfonyl chloride is the formation of Methanesulfonates from alcohols in the presence of a non-nucleophilic base.
  - Methanesulfonates are used as intermediates in substitution reactions, elimination reactions, reductions, and rearrangement reactions.
  - It may also be used for the conversion of amines to the corresponding sulfonamides.
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## PACKAGING OPTIONS

Drums

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