

METHANESULFONIC ACID (MSA)



CAS Number: 75-75-2

Other Names: Methylsulfonic acid; Methanesulfonate;
Mesic acid; Sulfomethane

Formula: CH₄O₃S

PRODUCT INTRODUCTION

Methanesulfonic acid belongs to the class of organic compounds known as organosulfonic acids in which the alkyl group directly linked to the sulfo functionality is methyl. It is a hygroscopic colorless liquid or white solid. It is very soluble in water and oxygenated solvents, but sparingly soluble in most hydrocarbons.

PHYSICAL AND CHEMICAL PROPERTIES

Content (%)	99.23
SO ₄ ²⁻ (ppm)	30
Fe (ppm)	2.3
Pb (ppm)	1.4
Color (Hazen)	20
Cl ⁻ (ppm)	8

APPLICATIONS

- Methanesulfonic acid and other lower alkanesulfonic acids are useful for plating of lead, nickel, cadmium, silver, and zinc. It also finds use in plating of tin, copper, lead, and other metals and is used in printed circuit board manufacture.
- Methanesulfonic acid finds use in ion-exchange resin regeneration because of the high solubility of many metal salts in aqueous solutions.
- It is also used as catalyst in esterification, alkylation, olefin polymerization, peroxidation reactions.
- Methanesulfonic acid is also a primary ingredient in rust and scale removers. It is used to clean off surface rust from ceramic, tiles and porcelain which are usually susceptible to acid attack.
- The methylsulfonic acid side chain was utilized in pharmaceutical products Novalgin (metamizole) & Methaniazide.

PACKAGING OPTIONS

Drums

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