

# DIETHYL SULPHATE



Cas Number: 64-67-5

**Other Names:** Sulfuric acid diethyl ester, Diethyl tetraoxosulfate, ethyl ethoxysulfonate, Diethyl Monosulfate

**Formula:**  $C_4H_{10}O_4S$  or  $(C_2H_5)_2SO_4$

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## PRODUCT INTRODUCTION

Diethyl sulfate appears as a clear colorless liquid with a peppermint odor. It burns but is difficult to ignite. Corrosive to metals and tissue. It is a potent alkylating agent. Exposure to this substance results in severe irritation to the eyes, skin and respiratory tract. It is a possible mutagen and is reasonably anticipated to be a human carcinogen based on evidence of carcinogenicity in experimental animals

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Colorless Liquid
Free Acidity	0.060 %
Specific Gravity (at 20°C)	1.178 g/mL
Hazen Color Value	3.4 APHA
Moisture Content	0.077 %
Purity	99.85 %

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## APPLICATIONS

- Diethyl sulphate chiefly acts as an ethylating agent and an accelerator in the sulfation of ethylene in some sulfonations.
  - It is also used as a finishing agent in textile manufacture and as a dye-set agent in carbonless paper.
  - It also acts as chemical intermediate for ethyl derivatives of phenols, amines, and thiols and as an alkylating agent
  - Smaller applications are in agricultural chemicals, in household products, in the pharmaceutical and cosmetic industries, as a laboratory reagent.
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## PACKAGING OPTIONS

Drums

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