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## Diethyl Sulfate

Product ID: DES-507

Synonyms: Diethyl Ester of Sulfuric Acid, Ethyl Sulphate, Diethyl Sulphate

CAS #: 64-67-5

**Sales Specifications:**

Purity (by GC): 99% min.

Acidity (as H<sub>2</sub>SO<sub>4</sub>): 0.03% max.

Water: 0.15% max.

Specific Gravity (at 20/4°C.): 1.178 – 1.182

Packing: 507 lb. net drums

**Physical Properties:**

Molecular Formula: (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>SO<sub>4</sub>

Molecular Weight: 154.18

Appearance: Clear

Physical State: Liquid

Odor: Ethereal Peppermint-like

Odor Threshold: No information available

pH: No data available


Melting/freezing point : -25°C

Boiling Point/Range: 208°C

Flash Point: 104°C / 219.2°F Closed cup

Evaporation Rate: Not available

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Vapor Pressure: 0.1 mmHg @ 20°C

Vapor Density: 5.31

Specific Gravity: 1.175 - 1.804

Water Solubility: 70 g/L

Solubility in other solvents: No information available

Partition coefficient: n-octanol/water: Not available

Auto-ignition temp (°C): 436°C / 817°F

Decomposition temperature: No data available

Viscosity, kinematic: No information available

Viscosity, dynamic: Not available

Explosive Properties: No information available

Oxidizing Properties: No information available

Softening Point: No Information available

### **Product Description:**

Kessler Chemical is a leading supplier and distributor of high-purity Diethyl Sulfate. Kessler Chemical works closely with leading suppliers to offer the high quality Diethyl Sulfate that you need for your applications.


Diethyl sulfate is a highly toxic chemical compound with formula  $(C_2H_5)_2SO_4$ . It occurs as a colorless liquid with a peppermint odor.

Diethyl Sulfate permits rapid and complete ethylation without use of pressure vessel or autoclave. Due to its low volatility it can be handles and stored almost without loss. Diethyl sulfate is used as an alkylating agent to prepare ethyl derivatives of phenols, amines, and thiols and the likes.

Diethyl sulfate is used as an ethylating agent in the manufacture of aromatic and aliphatic ethers, amines, amides, esters and imides carbazole for dyestuff, pharmaceutical and flavor synthesis. It is also used as a hardener for cresol formaldehyde resin manufacture and as a stabilizer for organophosphorous insecticide.

Chemical producers and buyers rely on Kessler Chemical for their Diethyl Sulfate needs. We offer the quality, availability and technical knowledge you are looking for in an Diethyl Sulfate supplier. Let Kessler Chemical work for you!

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