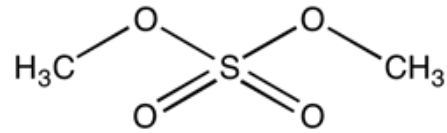


Identification

C₂H₆O₄S
M = 126,13 g/mol
CAS [77-78-1]
EC number: 201-058-1
Taric code: 2920 90 10

**Synonyms**

Sulfuric acid dimethyl ester, Methyl sulfate

Applications

analytical chemistry, synthesis of organic products, in biochemistry.

Specifications

assay (G.C.).....	min. 99 %	density (20°/4°).....	1,325 - 1,327
identity (IR-spectrum).....	passes test	residue on ignition (as SO ₄).....	max. 0,01 %
		water (K.F.).....	max. 0,05 %

Physical data

- Density: 1,33 g/cm³
- Solub. in water: (18 °C): 28 g/l (hydrolysis reaction)
- Melting point: -32 °C
- Boiling point: 188,5 °C (decomposes)
- Flash point: 83 °C
- Ignition temperature: 188 °C
- Vapour pressure: (30 °C) 0,35 hPa
- Refraction index: (n 20 °C/D) 1,3865
- Expl. limit (upper): 23,2 Vol%
- Expl. limit (lower): 3,6 Vol%

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H301: Toxic if swallowed.
H330: Fatal if inhaled.
H350: May cause cancer.
H341: Suspected of causing genetic defects.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P320: Specific treatment is urgent (see on this label).
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 6.1 TC1 I • UN 1595 • DIMETHYL SULPHATE
- IMDG: 6.1 I • UN 1595 • DIMETHYL SULPHATE
- IATA/ICAO: Forbidden • UN 1595 • DIMETHYL SULPHATE
- PAX: F
- CAO: F
- 15°C - 25°C