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## Typical Product Specifications & Properties

# Dimethyl Sulfate

CAS Number: : 77-78-1

| Specifications   | Limits                                                                                                              |
|------------------|---------------------------------------------------------------------------------------------------------------------|
| Melting Point    | -2.70E+01 &deg; C                                                                                                   |
| Melting Point    | -32 &deg;C                                                                                                          |
| Melting Point    | 104-105&deg;C                                                                                                       |
| Melting Point    | 106 &deg; C                                                                                                         |
| Vapor Pressure   | 0.7 mm Hg ( 25 &deg;C)                                                                                              |
| Vapor Pressure   | 0.677 mm Hg                                                                                                         |
| Vapor Pressure   | 2.80E-06 mm Hg                                                                                                      |
| Refractive Index | 1.386                                                                                                               |
| Vapor Density    | 4.3                                                                                                                 |
| Stability        | Stable; combustible. Incompatible with strong oxidizing agents, strong bases including ammonia. Moisture-sensitive. |
| Molecular weight | 162.28                                                                                                              |
| Molecular weight | 126.13                                                                                                              |



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| Specifications   | Limits                               |
|------------------|--------------------------------------|
| Color            | Clear colorless                      |
| Flash Point      | 182 &deg;F                           |
| Flash Point      | 156 &deg;C                           |
| Form             | Liquid                               |
| Solubility       | ethanol: 0.26 g/mL, clear, colorless |
| Boiling Point    | 188 &deg;C                           |
| Boiling Point    | 188 dec &deg; C                      |
| Density          | 1.333 g/mL at 25 &deg;C              |
| Density          | 1.3                                  |
| Water solubility | 3000 mg/L                            |
| Water solubility | <0.1 g/100 mL at 18 &#186;C          |
| Water solubility | 2.8 g/100 mL (18 ?C)                 |



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| Specifications       | Limits                                         |
|----------------------|------------------------------------------------|
| Water solubility     | 2.80E+04 mg/L                                  |
| Merck                | 13,3282                                        |
| Storage Temperature  | 2-8&deg;C                                      |
| Storage Temperature  | 0-6&deg;C                                      |
| EINECS               | 208-576-7                                      |
| Specifications       | Limits                                         |
| EINECS               | 201-058-1                                      |
| SMILES               | CN1CN(C(=S)SC1)C                               |
| InChI                | 1S/C5H10N2S2/c1-6-3-7(2)5(8)9-4-6/h3-4H2,1-2H3 |
| InChI                | 1S/C2H6O4S/c1-5-7(3,4)6-2/h1-2H3               |
| InChIKey             | VAYGXNSJCAHWJZ-UHFFFAOYSA-N                    |
| InChIKey             | QAYICIQNSGETAS-UHFFFAOYSA-N                    |
| Henry's Law Constant | 4.00E-06 atm-m3/mole                           |



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| Specifications               | Limits                                 |
|------------------------------|----------------------------------------|
| Henry's Law Constant         | 4.98E-10 atm-m <sup>3</sup> /mole      |
| log P (octanol-water)        | 0.160                                  |
| log P (octanol-water)        | 1.4                                    |
| Atmospheric OH Rate Constant | 2.85E-10 cm <sup>3</sup> /molecule-sec |
| Atmospheric OH Rate Constant | 5.00E-13 cm <sup>3</sup> /molecule-sec |



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