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Typical Product Specifications & Properties

Dimethyl Sulfate

CAS Number: : 77-78-1

Specifications	Limits
Melting Point	-2.70E+01 ° C
Melting Point	-32 °C
Melting Point	104-105°C
Melting Point	106 ° C
Vapor Pressure	0.7 mm Hg (25 °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 °F
Flash Point	156 °C
Form	Liquid
Solubility	ethanol: 0.26 g/mL, clear, colorless
Boiling Point	188 °C
Boiling Point	188 dec ° C
Density	1.333 g/mL at 25 °C
Density	1.3
Water solubility	3000 mg/L
Water solubility	<0.1 g/100 mL at 18 ºC
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°C
Storage Temperature	0-6°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-m ³ /mole



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



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