

## Certificate of Analysis

### Product Name: Dimethyl Ether (DME)

Sr. No.	Parameters	Unit	Results
1.	Appearance	Visually Clean	Colorless, Liquefied Gas
2.	Molecular Weight	(g/mol)	46.07
3.	Boiling Point	@ 760 mmHg, 1.01 ar	-24.8 °C
4.	Flash Point	°C	- 41.1°C closed cup
5.	Freezing Point	(°C 760mmHg)	-141.5°C
6.	Vapor pressure	@ 21.1°C	63.03 psig
7.	Specific gravity (Liquid)	@ 20 °C	0.66
8.	Specific gravity (Air)	@ 20 °C (Air =1)	1.167
9.	Vapor Density	(air = 1)	1.6
10.	Flammability	DOT	Flammable_gas DOT 2.1
11.	Upper/lower flammability limits	(v% in air)	3.4% LEL 18.2% UEL
12.	Solubility in water	g/l	45.6 g/l (at 25°C and 1 atm.)
13.	Partition coefficient	(n-octanol/water)	POW 0.07 at 25°C
14.	Auto-ignition temperature	°C	350°C
15.	Critical temperature	°C	126.9°C

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