

## Legend Sr. No. 1 (i) - Properties of Diethyl Ether .

S. No	Property	Attribute/s
1	Taste	Burning and sweet taste
2	Odor	Sweetish, pungent odor
3	Colour	Colorless, volatile, mobile liquid
4	Molecular Weight	74.1216 g/mol
5	Molecular Formula	C <sub>4</sub> H <sub>10</sub> O
6	Boiling Point	34.6 deg C at 760 mm Hg; 17.9 deg C at 400 mm Hg; 2.2 deg C at 200 mm Hg
5	Melting Point	-116.3 deg C (stable crystals); -123.3 deg C (metastable crystals)
6	Density	0.7134 at 20 deg C/4 deg C
7	Viscosity	0.2448 centipoise at 20 deg C
8	Surface Tension	17.06 dynes/cm at 20 deg C
9	Vapor Density	2.55 (Air = 1.0)
10	Vapor Pressure	538 mm Hg at 25 deg C
11	Heat of Vaporization	89.80 cal/g at 30 deg C
12	Ionicity	9.53 eV
13	Auto-Ignition	356 deg F (180 deg C)