

METHYLENE CHLORIDE Ph.Eur SPECIFICATION

Sr.No.	Test	Specifications
1	Appearance	Clear, colourless, volatile liquid.
2	Solubility	Sparingly soluble in water, miscible with ethanol (96%).
3	Identification	
	A) Refractive index at 20°C ± 0.5°C.	1.423 to 1.425 at 20°C ± 0.5°C.
	B) By IR	The spectrum obtained with the sample corresponds in position & relative intensity to those in the spectrum obtained with that of Dichloromethane CRS or its Working standard.
	C) Relative density at 20°C	1.320 to 1.332 at 20°C.
	D) Chemical Test	A violet colour is produced.
	E) Chemical Test	Passes the test
4	Appearance of solution	The substance to be examined is clear and colourless
5	Acidity	Not more than 0.15 ml of 0.1M sodium hydroxide should require to change the colour of the indicator to blue.
6	Relative density at 20°C.	1.320 to 1.332 at 20°C.
7	Refractive index at 20°C ± 0.5°C.	1.423 to 1.425 at 20°C ± 0.5°C.
8	Ethanol, 2-methylbut-2-ene and volatile impurities (By GC) Ethanol 2-methylbut-2-ene Impurity A (Carbon tetra-chloride) Impurity B (Chloroform) Sum of impurities other than ethanol and 2-methylbut-2-ene	Maximum 2.0% v/v Maximum 300 ppm v/v Maximum 10 ppm v/v Maximum 50 ppm v/v Maximum 0.1% v/v
9	Free Chlorine	No blue colour should develop.
10	Residue on evaporation	Maximum 20 ppm.
11	Water	Maximum 0.02% m/m.
12	Residual solvents (By GC) a) Methanol b) Ethanol c) 2-Methyl-2-butene d) Chloroform e) Carbon tetra chloride	Not more than 3000 ppm v/v Not more than 5000 ppm v/v Not more than 300 ppm v/v Not more than 60 ppm v/v Not more than 4 ppm v/v