

TOLUENE

Toluene is primarily used in the manufacture of chemicals, drugs, explosives, food flavoring and sweetening agents, paints and resins.

TOLUENE CONFORMS TO IS 537:1967(REAFFIRMED 2000) SPECIFICATIONS FOR TOLUENE, PURE NITRATION GRADE.

Sr. No.	Characteristics	Test Method appendix	Test method various Indian standards	Requirement
i)	Colour	-	5 of IS:82-1950**	Not darker than a freshly prepared solution of 0.1 N potassium dichromate & 12 ml. of 0.1N Cobalt sulphate made up to 1000 ml. with water
ii)	Specify gravity* at 1. 15/15 °c 2. 27/27 °c	-	6.3.3 of IS:82-1950**	0.870 to 0.874 0.859 to 0.863
iii)	Distillation Range:	-	IS:5298-1969*** (See note)	The difference between the temperature (running points) at which 1 and 96 percent of the volume taken have been collected shall not exceed 0.6 °c when a sample is tested by standard method. This range shall include the temperature of 110.6 °c
iv)	Residue on evaporation, mg/ 100 ml. max.	-	9 of IS:82-1950**	5
v)	Total sulphur, % by weight, max.	Determination of total sulphur as given in annex C of the standard	--	0.1
vi)	Hydrogen sulphide	Determination of hydrogen sulphide as given in annex D of the standard	-	To pass test
vii)	Mercaptans	-	P:19(Doctor test) of IS:1448 (1960)***	Shall give no position reaction.

*When the material is required with especially low content of non-sulphonable hydrocarbon sp. Gr. At 27/27 °c shall not be lower than 0.859.

**Method of test for thinners and solvents for paints.

***Method for determination of distillation range and of distillation of yield.

Note

Thermometer conforming to the following essential specifications shall be used.

Range: 98 – 152 °c

Subdivision: 0.2 °c

Immersion: 100 mm.