

7300000 Industrial Production and Manufacturing Services											
7310000 Plastic and chemical industries											
73101600 Chemicals and fertilizers production											
Commodity :73101607 Ethanol or methanol or derivatives production services											
Selling Unit : volume-milliliter											
S.No.	Parameters	Type	Value 1	Value 2	Value 3	Value 4	Validation/ Remark	M	F	G	Demand aggregation
Grade											
1	Grades	Ch	Pure	Technical				√	√	√	
REQUIREMENTS											
2	Description	Ch	The material shall be a clear and colourless liquid, free from matter in suspension.					√			
3	Miscibility with Water	Ch	The material shall show no turbidity when one volume is mixed with 19 volumes of water at 27 ± 2 °C					√			
4	Relative density at 27°/27°C, Max	N	0.789	0.798				√	√		
5	Distillation range at 760 mm pressure	N	The difference between initial boiling point (IBP) and dry point (DP) shall not exceed 1°C including 64.5°C	Not less than 95 percent by volume shall distil between 65.5°C and 66.5°C [temperature being corrected for a pressure of 760mm of Hg]				√	√		
6	Residue on evaporation, percent by mass, Max	N	0.01	0.02				√	√		

7	Alkalinity (as NH ₃), percent by mass, Max	N	0.0003					√			
8	Acidity, as acetic acid (CH ₃ COOH),percent by mass, Max	N	0.004	0.006	0.002			√	√		
9	Aldehydes and ketones as acetone (CH ₃ COCH ₃), percent by mass, Max	N	0.03	0.10	0.001			√	√		
10	Sulphur and compounds of sulphur (as S), percent by mass, Max	N	0.001	NA				√	√		
11	Chlorine and chlorine compounds	N	To pass test					√			
12	Water Content, percent by mass, Max	N	0.1	0.5				√	√		
13	Residue on evaporation, percent by mass, Max	N	0.001					√			
14	Chemical formula	Ch	CH ₃ OH					√			
15	Molecular weight (g/mol)	N	32.04					√			
16	Purity (GC) %Min	N	99.7	NA				√	√		
17	Free acid (as HCOOH)%Max	N	0.001	NA				√	√		
18	UV transmission at 210 nm % min	N	20	NA				√	√		
19	UV transmission at 235 nm % min	N	80	NA				√	√		
20	UV transmission from 260 nm % min	N	98	NA				√	√		

Packing											
21	The material shall be packed as agreed to between the purchaser and the supplier, subject to the provisions of the law in force in the country for the time being	CH	YES					v			
22	All containers in which the material is packed shall be dry, dean and free from substances soluble in methanol and shall be leak proof	CH	YES					v			
23	Necessary safeguards against the risks arising from the storage and handling of large volumes of flammable liquids shall be provided and all precautions shall be taken at all times to prevent accident by fire or explosion	CH	YES					v			
24	Except when they are opened for the purposes of cleaning and rendering them free from vapour, all containers shall be kept securely closed, unless they have been thoroughly deaned and freed from methanol vapour	CH	YES					v			
25	Packing size (in ml)	N	500	1000	2000	5000		v	v	v	

Marking											
26	The material shall be supplied in accordance with the marking and delivery instructions given by the purchaser	CH	YES						√		
27	Each container shall be marked with the : a) Name of ahe material; b) Manufacturer's name or trade-mark, if any, or both; c) Gross; net and tare mass; d) Month and year of manufacture; and e) Minimum cautionary notice worded as under: 'FLAMMABLE !' INGESTION OR ABSORPTION DANGEROUS ! CAUSES BLINDNESS! CUMULATIVE POISON!'	CH	YES						√		
28	The containers may also be marked with the Standard Mark	CH	YES	NA					√	√	
Shelf Life											
29	Shelf Life (years)	N	1	2	3	4			√	√	√
Certification											
30	Conforming to IS:517(Latest)	CH	YES	NA					√	√	
31	Whether ISI Marked	CH	YES	No					√	√	
32	CM/L Number(Must declare if ISI Marked)	CH	YES	NA					√	√	
Test Report Details											
33	Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification	Ch	Yes	No					√	√	
34	Test Report to be submitted to the Buyer on Demand write NA if Test report is not available	Ch	Yes	NA					√	√	