

# STANDARD SPECIFICATION OF BENZENE OCTANE 83

PROPERTY	REQUIREMENT		METHOD OF TEST
	MIN	MAX	
Research Octane Number, RON	91 (Until 31.12.2014)	-----	ISO 5164 ASTM D2699
Motor Octane Number, MON	81 (Until 31.12.2014)	-----	ISO 5163 ASTM D2700
Lead Content, mg/L	-----	1.3	EN 237 ASTM D3237/IP 428
Benzene Content, % v/v	-----	3.0	EN 238/IP429 ASTM D4420
Total aromatics, % v/v	To Be Reported	To Be Reported	ASTM D1319, ASTM D5580 or ASTM D5443
Density (at 20 °C), kg/m <sup>3</sup>	716	771	ISO 3675, ASTM D4052
Density (at 15 °C), kg/m <sup>3</sup>	720	780	ASTM D1298
Sulphur Content, % m/m	-----	0.015	EN 24260, ISO 8754, ASTM D2622/IP336
Oxidation stability, minutes	360	-----	ISO 7536/IP40 ASTM D525
Appearance	Clear, bright and free from suspended particles	Clear, bright and free from suspended particles	Visual Inspection
Doctor Test*	To Be Reported		ASTM D4952/IP30
Mercaptan Sulphur, % m/m		0.001	ASTM D3227
Color			Visual Inspection
Dye Content, g/m <sup>3</sup>		1.3	-----
Odor	Marketable	Marketable	-----
Oxygenates			EN 1601/EN 13132
RVP at 37.8 °C, KPa		65	ASTM D323
FVI		93	ASTM D323
Distillation			ASTM D86 or IP123
a) Temperature, °C for:			ASTM D86
Initial Boiling Point	To Be Reported		
10% volume fraction evaporated		71	
50% volume fraction evaporated	77	115	
90% volume fraction evaporated		180	
b) Final boiling point, °C		210	
c) Residue, % Volume fraction,		2.0	
d) Evaporated to 70 °C (E70), % volume fraction	Report	Report	

\* If Negative, no need to carry out Mercaptan Sulphur test.

NOTE: For the purpose of this standard, the RON and MON shall be 91 and 81, Min, respectively until 31.12.2014 and thereafter 93 and 83 Min respectively.

