



INDIAN OIL CORPORATION LIMITED
Panipat Refinery
Naphtha Cracker Project Core Group, QC Lab
Panipat

Test Report

Material: Benzene
Batch No. : TK – 15C

Sample Receipt Date : 12.01.2023

Date of certification: 13.01.2023

Sr. No.	TEST PARAMETERS	UNIT	TEST METHOD	SPECIFICATION	TEST RESULT
1	Physical Appearance	---	Visual	Clear Liquid	Clear & Colourless
2	Purity	wt%	ASTM D-4492	99.90min	99.90
3	Toluene	wt%	ASTM D-4492	0.01 max	0.0391
4	Non aromatics	wt%	ASTM D-4492	0.05 max	0.0579
5	p-dioxane	wt. ppm	ASTM D-4492	1.0 max	<1.0
6	Total sulphur	ppm	ASTM D-5453	1 max	15.36
7	Total Nitrogen	wt %	ASTM D-4629	0.3 max	<0.01
8	Bromine Index	mg/100gm	ASTM D-2710	20 max	7
9	Density@15 °C	gm/ml	ASTM D 4052	Actual	0.8844
10	Distillation range	°C	ASTM D850	1 °C max including 80.1 from IBP to Dry point	
	IBP				79.4
	Dry Point				80.4
11	Acid wash colour	-	ASTM D848	1 max.	<1.0
12	Solidification point	°C	ASTM D852	5.45	5.45
Additional Parameter					
1	R.O.E	mg /100 gm	ASTM D381	10 max	7
2	Cu Corrosion		ASTM D 130	Passes 1a	1a
3	Water Content	ppm	ASTM D1744	<100	120
4	Colour	Pt.co	ASTM D1209	10 max.	4
5	Chloride Content				
a)	Inorganic	ppm	UOP 395	2 max	ND
b)	Organic	ppm	ASTM D 4929	Nil	ND
6	n-Haptane	ppm	ASTM D 4492	100 max	57