

ANALYTICAL REPORT

ISSUED BY MANUFACTURER

DATE OF ISSUE : Nov. 17, 2022

* PRODUCT	: N HEPTANE 99PCNT
* SAMPLING POINT	: TT03_KOREA PETROLEUM TANK TERMINAL
* DATE OF MANUFACTURING	: 2022-10-20
* DATE OF RETEST	: 2024-10-18
* MANUFACTURER	: SK GEO CENTRIC CO., LTD 26, Jong-ro, Jongno-gu, Republic of Korea South Korea, 110728
* QUANTITY	: 16.44 MTS

BATCH NUMBER : T-707 20221020-1

<u>Test Item</u>	<u>Result</u>	<u>Spec</u>	<u>Test Method</u>
Appearance	Bright & Clear	Colorless	Visual
API Gravity(American Petroleum Institute Gravity) 60°F	74.1	72.7-74.7	ASTM D 1298
Specific Gravity 60/60°F	0.6883	0.686-0.690	ASTM D 4052
Density 15°C kg/m ³	688.1	REPORT	
Components			
n-Heptane mass%	99.40	MIN 99.2	G.C
cis-1,2-Dimethylcyclopentane + Methylcyclohexane mass%	0.148	MAX 0.350	
trans-1,2-Dimethylcyclopentane mass%	0.063	MAX 0.249	
3-Methylhexane mass%	0.145	MAX 0.249	
Largest Other Single mass%	0.107	MAX 0.149	
Distillation			
Initial Boiling Point °C	98.0	MIN 97.2	ASTM D 1078
95% Evaporated Temperature °C	98.5	REPORT	ASTM D 1078
Dry Point °C	98.6	MAX 100.5	ASTM D 1078
Color-Saybolt	+30	MIN +30	ASTM D 156
Sulfur mg/kg	LT0.1	MAX 1	ASTM D 5453
Copper Strip Corrosion 100°C, 2h	1-a	MAX 1	ASTM D 130
Nonvolatile Matter mg/100mL	0.3	MAX 1	ASTM D 1353
Aromatics mg/kg	0	MAX 10	G.C
Components			
Benzene mg/kg	0	REPORT	G.C
Toluene mg/kg	0	REPORT	G.C
Xylene(o-Xylene + m-Xylene + p-Xylene) mg/kg	0	REPORT	G.C
Doctor Test	None Detected	None Detected	ASTM D 4952
Water Content mg/kg	24	MAX 100	ASTM D 6304

* LC NUMBER AND DATE : 0393MLC00078823 AND 2022.10.27

WE CERTIFY THE ABOVE STATEMENT OF QUALITY TO BE TRUE AND CORRECT.

SK geo centric Co., Ltd.

Yong Soo Kim

Signed by

General Manager

SK GEO CENTRIC CO., LTD