

CERTIFICATE OF ANALYSIS

ISSUED BY MANUFACTURER

DATE OF ISSUE : Mar. 19, 2019

PRODUCT : CYCLOHEXANE
 SAMPLING POINT : P-T207
 MANUFACTURING DATE : 2019-02-15
 EXPIRY DATE : 2021-02-13
 MANUFACTURER : SK GLOBAL CHEMICAL CO, LTD
 JONGRO 28, JONGRO-GU SEOUL
 110-728 SOUTH KOREA.

LOT NO. : 3-190228

Test Item	Result	Spec	Test Method
Color, Pt-Co scale	5	MAX 10	ASTM D 1209
Specific Gravity 15.56/15.56 °C	0.7835	0.780 - 0.784	ASTM D 4052
Density 15 °C kg/m ³	783.2		
Distillation at 760 mmHg			
Initial Boiling Point °C	50.5	MIN 50.0	ASTM D 850
Dry Point °C	50.8	MAX 52.0	
Components			
Benzene wt %	0.00	MAX 0.1	G.C
Cyclo-Hexane wt %	99.98	MIN 99.8	G.C
High Boiling point Hydrocarbon wt %	0.0055	MAX 0.1	G.C
Nonvolatile Matter mg/100ml	0.3	MAX 1	ASTM D 1355
Total Sulfur wt ppm	LT 0.1	MAX 5	ASTM D 3120
Copper Corrosion 100 °C, 30min	Pass	Note.1	ASTM D 949

NOTE: Any evidence of iridescence or gray or black deposit or discoloration of the flat surface shall be considered cause for rejection. A perfectly uniform tarnishing of the flat surface shall be disregarded.

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

SK global chemical Co., Ltd.

KIM JONG YL

General Manager