

Date: 09/06/2022

SGS YOSU OFFICE

Test Report: YS22-01380.001

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the below results. Users of analytical results, when establishing conformance with commercial or regulatory requirements should note the full provisions of ASTM D3244, IP 367 and ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Sections 7.3.6., 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.

This test report is not related to Korea Laboratory Accreditation Scheme.

CLIENT ORDER NUMBER :	20012272 KOLMAR_SHIP_AFTERTR	SGS ORDER NO.:	--
LOCATION :	-	VESSEL :	SAEHAN LIBERTY
SAMPLE SOURCE :	Ships Tanks	PRODUCT DESCRIPTION :	Cyclohexanone
SAMPLE TYPE :	After Transfer	SOURCE ID :	Composite
SAMPLED :	--	SAMPLE BY :	SGS Inspector
ANALYSED :	09/06/2022	RECEIVED :	07/06/2022
		COMPLETED :	09/06/2022


The laboratory analysis for the Sub-Contract Laboratory tests are provided by:
S7 - Subcontracted to another SGS - ISO 17025 Laboratory

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Test Temperature	Visual	25 °C	--	--
Appearance	Visual	Colorless ---	Colorless	--
Colour of Liquids using Tristimulus Colourimetry	ASTM D5386-16			
Color, APHA		3 Pt/Co Colour	--	10
Density at 20°C	ASTM D4052-22	0.9464 g/cm³	--	--
S7 - Impurities and Calculation of Purity in Cyclohexanone by GC	GC SGS KR 026 (In-House)			
Total Impurities		340 mg/kg	--	--
Cyclohexanone		99.93 % (m/m)	99.8	--
Distillation Range of Volatile Organic Compounds	ASTM D1078-11(2019)			
Initial boiling point (IBP)		154.0 °C	153.0	--
Dry Point		155.5 °C	--	157.0
Distillation Range (DP-IBP)		1.5 °C	--	1.5
Water Content by Coulometric KF	ASTM E1064-16	0.030 % (m/m)	--	0.08
Acidity (as Acetic Acid)	ASTM D1613-17	0.0022 % (m/m)	--	0.01
** End of Analytical Results **				

REPORTED BY

AUTHORISED SIGNATORY

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