

Certificate of Quality: GZ22-01614.001

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Client : KEMPAR ENERGY PTE LTD
 Report No. : COPCZJ2200367-01B
 Date of Job : 5-May-2022 To 6-May-2022
 Vessel : SUMMER 7
 Cargo : Toluene
 Port of loading : MAOMING, CHINA
 BL date : 6-May-2022

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.

JOB ORDER NO. :	COPCZJ2200367-01PC	BOSS ORDER NO.:	--
CLIENT ID :	N/A	VESSEL :	M/T"SUMMER 7"
LOCATION :	MAOMING, CHINA	PRODUCT DESCRIPTION :	Toluene
SAMPLE SOURCE :	Shore Tanks	SOURCE ID :	See Sample Comment
REPORT COMMENT :	The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.		

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Appearance	Visual	Clear & --- Bright	--	--
Platinum Cobalt Colour	ASTM D1209-05(2019)	5 Pt/Co Colour	--	20
Total Impurities	ASTM D7504-21			
Toluene Purity		99.99 % (m/m)	99.5	--
Non-aromatics		0.007 % (m/m)	--	0.25
Benzene		<0.001 % (m/m)	--	0.10
C8 Aromatics		<0.001 % (m/m)	--	0.10
Neutral Test	GB/T 1816-2019	Neutral ---	--	--
Density at 20°C	ASTM D4052-18a	0.8669 g/cm³	0.865	0.868
Acid Wash Colour	ASTM D848-18	No.1- ---	--	4
Total Sulphur	ASTM D7183-18ae1	<1.0 mg/kg	--	2
Bromine Index	ASTM D2710-20	<10 mg Br/100g	--	--
Nonvolatile Matter	ASTM D1353-13(2021)	<1 mg/100mL	--	3

----- End of Analytical Results -----

REPORTED BY

AUTHORIZED SIGNATORY

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