

International Independent Inspection &amp; Testing Company

P.O. Box 2209, Plot No. TP/010305, National Industries Park, Dubai - United Arab Emirates, Tel.: +971 4 8867400, Fax: +971 4 8867401

Laboratory: E-mail: lab.dubai@geochemglobal.com, Operation: Email: operations.dubai@geochemglobal.com

ISO 9001:2015 CERTIFIED COMPANY

www.geochem.ae

**CERTIFICATE OF QUALITY**

Lab Report No. : GC/LR/884821/2022  
 Sample No. : GC/884821  
 Ref. No. : INSP/324/03/2022  
 Vessel : M.T. "GOLDEN BRILLIANT"  
 Commodity : Methanol  
 Issued at : Jebel Ali, U.A.E  
 Issue Date : 13/03/2022  
 Sample reference : Ship Tank# 1W to 5W & Slop W  
 Composite Sample  
 Dated: 12/03/2022

| Test Item                | Unit              | Method     | Spec. Value                            | Result                             |
|--------------------------|-------------------|------------|--|------------------------------------|
| Appearance               | ---               | ASTM D1772 | Clear and free of suspended matter     | Clear and free of suspended matter |
| Purity                   | WT%               | ASTM E346  | Min 99.85                              | 99.9                               |
| Water                    | WT%               | ASTM E1064 | Max 0.1                                | 0.02                               |
| Ethanol                  | WT%               | ASTM E346  | Max 0.0050                             | <0.005                             |
| SP.GR@20/20°C            | --                | ASTM D4052 | 0.791-0.793                            | 0.7927                             |
| Acetone                  | WT%               | ASTM E346  | Max 0.001                              | <0.001                             |
| Permanganate Time @15 °C | Minutes           | ASTM D1363 | Min 60                                 | >60                                |
| Distillation Range       | --                | ASTM D1078 | Max 1.0                                | 0.6                                |
| Acidity                  | WT%               | ASTM D1613 | Max 0.003                              | 0.002                              |
| Total Iron               | PPM               | ASTM D1068 | Max 0.1                                | 0.04                               |
| Chloride                 | PPM               | ASTM D512  | Max 0.2                                | 0.05                               |
| Sulphur                  | PPM               | ASTM D5623 | Nil                                    | Nil                                |
| Carbonisable             | PT-CO             | ASTM E346  | Max 30 APHA                            | Below 30                           |
| Hydrocarbons             | Water miscibility | ASTM D1722 | Passes test                            | Passes                             |
| Odour                    | --                | ASTM D1296 | Characteristic with non residual odour | Characteristic non residual odour  |
| Colour PT-CO             | APHA              | ASTM D1209 | Max 5APHA                              | LT 5                               |
| Non Volatile Matter      | Mg/1000ml         | ASTM D1353 | Max 8                                  | <8                                 |
| Alkalinity as NH3        | WT%               | ASTM D1614 | Nil                                    | Nil                                |

**Remarks:** Sample meets contractual specification of Methanol with respect to the above tests only.

Test conducted on : 12-13/03/2022  
 Test method deviation : None  
 Sampling method : ASTM D 4057  
 Test conducted by : 813, 895, 881  
 Report prepared by : 243  
 The above test results are only applicable to the samples(s) referred above  
**REPORTED BY**

PRADEESH PRADEESH

LABORATORY MANAGER

The Test Report shall not be reproduced (except in full) without the written approval of Geo-Chem Middle East  
 Samples shall be retained for 90 days only, unless otherwise instructed by customers and agreed by Geo-Chem Middle East in writing.

QA.LD/16; Revision 02; Issue date : 15/01/2019.

END OF REPORT

Page 1 of 1