



## Certificate of Analysis (COA)

|                          |                              |                       |                   |
|--------------------------|------------------------------|-----------------------|-------------------|
| <b>Product Name:</b>     | Potassium Methoxide Solution | <b>Batch Number:</b>  | SMO-LI-20250902-2 |
| <b>Cas Number:</b>       | 865-33-8                     | <b>MFG Date:</b>      | 16 Sep 2025       |
| <b>Chemical Formula:</b> | KOCH <sub>3</sub> In MeOH    | <b>Analysis Date:</b> | 16 Sep 2025       |
| <b>Quantity:</b>         | 17799 Kg                     | <b>Expiry date:</b>   | 1 Year            |

| Characteristics                         | Product Standard               | Test Results | Method              |
|---|--------------------------------|--------------|---------------------|
| Appearance                              | Clear Colorless Viscos Liquid  | Complies     | USP General Notices |
| Solubility                              | Miscible with Water & Methanol | Complies     | USP 41 page 5771    |
| Identification (Potassium)              | Positive to Potassium Test     | Complies     | In-house            |
| Moisture Content by KF                  | 0.2% w/w Maximum               | 0.1%         | K.F. Titration      |
| Free Alkalinity as (KOH & NaOH)         | 0.5% w/w Maximum               | 0.1%         | Calculated          |
| Total Alkalinity as Potassium Methoxide | 30-32% w/w                     | 31.6%        | Titration           |
| Net Potassium Methoxide                 | 30-32% w/w                     | 31.5%        | Calculated          |
| Methanol                                | 68-70% w/w                     | 68.3%        | In-house            |
| Mercury Content                         | NIL                            | Complies     | In-house            |
| Iron Content                            | Not more than 4 ppm            | Complies     | In-house            |

\*Product Specifications are subject to amendment and may change over time.

|                                 |   |                                 |
|---------------------------------|---|---------------------------------|
| <b>Prepared By:</b> A. Ziyarati | <b>Checked By:</b> M. Setayesh  | <b>Approved By:</b> A. Ebrahimi |
| <b>Conclusion</b>               | The quality of the tested product is in conformity with its standard* |                                 |
| <b>Storage</b>                  | Stored in dry and ventilated place, far from heat and water.          |                                 |
| <b>COA Issuer</b>               | Quality Control Department of Lian Chemical Development CO., Ltd.     |                                 |

- \*1-Methanol purity test standard: ASTM E346-99
- 2- Caustic flake purity test standard: ASTM E291-16
- 3- Mix & SMO (Caustic + Methanol) test standard: ASTM E291-16
- 4- SMO M.C. test standard: ASTM E203-16

Lian Chemical Development CO. Sodium Methoxide Production Plant  
Head Office: No.15, Masoumi Street, Seoul Township, Tehran, Iran  
Factory: Bushehr Special Economic Zone, Iran

☎ 021 86053488  
☎ +98 9945710873  
✉ sales@Lian-chemical.com