Carlo Erba Reagents S.A.S.
Parc d'Affaires des Portes
Chaussée du Vexin - BP 616
27106 Val de Reuil Cedex
Tél.:02.32.09.20.00
Fax 02.32.09.20.20

Z.I DE VALDONNE - BP 4
13124 PEYPIN
Tél.:04.42.32.41.41
Fax 04.42.72.41.62

Carlo Erba Reagents S.r.l.
Via R. Merendi, 22
20010 Cornaredo (Mi)
Tel. 02 93 991 90 Fax 02 93 991 001

ISO 9001: 2015

# Certificate of Analysis

**PRODUCT :** Methanol RPE For analysis ACS Reag. Ph.Eur. - Reag. USP

***CODE :*** 414815

***LOT N° :*** V3F045203F

***MOLECULAR WEIGHT :*** 32,04

***RE-TEST DATE :*** 06/2029

***CAS N° :*** 67-56-1

***FORMULA :*** CH3OH

| TEST | U.M. | SPECIFICATION | RESULT |
|---|---|---|---|
| Description | - | Clear liquid | Conform |
| Colour | APHA | <= 5 | < 5 |
| Identification (I.R.) | - | Positive | Positive |
| Subs. reducing KMnO4 | ppm | <= 2 | <2 |
| Acidity | meq/g | <= 0.0003 | <0.0003 |
| Alcalinity | meq/g | <= 0.00006 | <0.00006 |
| Density at 20°C | - | 0.7910 - 0.7930 | 0.791 |
| Distillation range | °C | 0.0 - 1.0 | 0.3 |
| Water (K.F.) | ppm | <= 500 | <200 |
| Residue after evaporation | ppm | <= 8 | 1 |
| Assay (GC) | % | >= 99.9 | >99.9 |
| UV Absorbance (5cm, ref. water) | - | Smooth | Conform |
| Water miscibility | - | Conform | Conform |
| Readily carbonizable substances | - | Conform | Conform |
| Refractive index at 20°C | - | 1.3280 - 1.3296 | 1.3284 |
| Chloride | ppm | <= 0.5 | <0.2 |
| Ethanol | ppm | <= 50 | <50 |
| Carbonyl compounds (as CO) | ppm | <= 10 | <5 |
| Heavy metals (as Pb) | ppm | <= 0.5 | <0.2 |
| Al | ppm | <= 0.5 | <0.05 |
| B | ppm | <= 0.02 | <0.01 |
| Ba | ppm | <= 0.1 | <0.1 |
| Ca | ppm | <= 0.5 | <0.5 |
| Cd | ppm | <= 0.05 | <0.005 |
| Co | ppm | <= 0.01 | <0.01 |
| Cr | ppm | <= 0.02 | <0.01 |
| Cu | ppm | <= 0.01 | <0.01 |
| Fe | ppm | <= 0.1 | <0.1 |
| Mg | ppm | <= 0.1 | <0.1 |
| Mn | ppm | <= 0.01 | <0.01 |
| Ni | ppm | <= 0.01 | <0.01 |
| Pb | ppm | <= 0.01 | <0.01 |
| Sn | ppm | <= 0.1 | <0.02 |
| Nessler test | - | Conform | Conform |

It is under the customer responsibility to make sure the purchased product is suitable for his use and/or application.
CARLO ERBA Reagents would not be guilty of any misuse or mishandling of any of its products, occurring potential damages or user hurts in case of inappropriate use.

**Approve Date : 14/06/2023**

Approved electronically, valid without a signature
**QUALITY CONTROL RESPONSIBLE**

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Conform IMPCA (International Methanol Producers & Consumers Association)

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