

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : 2,2,4-TRIMETHYLPENTANE 99.5% AR**  
(iso-Octane)

|                         |                                  |                     |              |
|-------------------------|----------------------------------|---------------------|--------------|
| <b>CAS No</b>           | : 540-84-1                       | <b>Product code</b> | : 26753      |
| <b>Mol. Formula</b>     | : C <sub>8</sub> H <sub>18</sub> | <b>Batch No</b>     | : MCAR-00865 |
| <b>Mol. WT</b>          | : 114.23                         | <b>Mfd.</b>         | : Nov. 2024  |
| <b>Date of analysis</b> | : 29/11/24                       | <b>Exp.</b>         | : Oct. 2029  |

| S.R | Test                                                 | Specification                                         | Observation                                           |
|-----|------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| 1   | Description                                          | A clear, colourless liquid, with characteristic odour | A clear, colourless liquid, with characteristic odour |
| 2   | Assay                                                | 99.5% min                                             | 99.73%                                                |
| 3   | Wt. per ml at 20°C                                   | 0.691 - 0.693g                                        | 0.692g                                                |
| 4   | Refractive index (n) <sup>20</sup> <sub>D</sub>      | 1.391 - 1.392                                         | 1.391                                                 |
| 5   | Bromine number                                       | 0.5 max.                                              | 0.3                                                   |
| 6   | Water                                                | 0.025% max.                                           | 0.01%                                                 |
| 7   | Acidity (CH <sub>3</sub> COOH)                       | 0.0005% max.                                          | <0.0005%                                              |
| 8   | Non volatile matter                                  | 0.002% max.                                           | 0.001%                                                |
| 9   | Sulphur compound (CS <sub>2</sub> )                  | 0.0003% max.                                          | <0.0003%                                              |
| 10  | Copper (Cu)                                          | 0.00002% max.                                         | <0.00002%                                             |
| 11  | Iron (Fe)                                            | 0.00005% max.                                         | <0.00005%                                             |
| 12  | Lead (Pb)                                            | 0.00002% max.                                         | <0.00002%                                             |
| 13  | Substance darkened by H <sub>2</sub> SO <sub>4</sub> | Passes test                                           | Passes test                                           |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**



**CHEMIST**  
(Deepa)

**[QC Incharge]**



**HEAD-QUALITY ASSURANCE**  
(G.G.Salián)

**MOLYCHEM H.Q. :** Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)

Tel. : +91 22 4066 8111 • Email: [info@molychem.net](mailto:info@molychem.net) • Web: [www.molychem.net](http://www.molychem.net)

Reg. Office : 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai - 400 002 (INDIA)

Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.