# CERTIFICATE OF ANALYSIS

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

| | | | |
|---|---|---|---|
| **CAS No** | **: 540- 84- 1** | **Product code** | **: 26753** |
| **Mol. Formula** | **: $C_8H_{18}$** | **Batch No** | **: MCRT-17284** |
| **Mol. WT** | **: 114.23** | **Mfd.** | **: Nov.2018** |
| **Date of analysis** | **: 14/11/18** | **Exp.** | **: Oct. 2023** |

| 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 | 99.68% |
| 3 | **Wt. per ml at $20^0$C** | 0.691-0.693g | 0.692g |
| 4 | **Refractive index $(n)^{20}_D$** | 1.391-1.392 | 1.391 |
| 5 | **Bromine number** | 0.5 max. | 0.3 |
| 6 | **Water** | 0.025% max. | 0.012% |
| 7 | **Acidity ($CH_3COOH$)** | 0.0005% max. | <0.0005% |
| 8 | **Non volatile matter** | 0.002% max. | 0.001% |
| 9 | **Sulphur compound ($CS_2$)** | 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 $H_2SO_4$** | Passes test | Passes test |

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

**[Tested By]** **[QC Incharge]**

**HEAD-QUALITY ASSUARANCE**
**(G.G.Salian)**

**Note**: Computer generated image requires no sign.

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