



LIAONING YUFENG CHEMICAL CO.,LTD.

Certification of Analysis

| Product: Normal pentane 99% | | Batch No.:YF20220930-NP5 | |
|---|------------------|--|----------------|
| Production time: Sep. 30 th 2022 | | Expiry Date:Sep. 29 th 2024 | |
| Inspection time: Oct. 7 th 2022 | | Cas: 109-66-0 | |
| Index | Standards | Results | Testing Method |
| Density (15°C)(g/ cm ³) | 0.626-0.636 | 0.628 | ASTM D4052 |
| Appearance | Colorless liquid | Colorless liquid | Visual |
| Aromatics ppm | ≤100 | 0 | GC |
| Bromine index (mgBr/100g) | ≤50 | 0 | UOP304 |
| Sulfur (ppm) | ≤1 | 0 | ASTM D5453 |
| Nitrogen(ppm) | ≤1 | <1 | ASTM D4629 |
| Chloride(ppm) | ≤1 | <1 | ASTM D4929 |
| Floride(ppm) | ≤1 | <1 | ASTM D7359 |
| N-pentane (wt%) | ≥99 | 99.0611 | GC |
| Iso-pentane (wt%) | -- | 0.1166 | GC |
| C4 and lighter (wt%) | -- | 0.2477 | GC |
| C6 and heavier (wt%) | -- | 0.5746 | GC |
| Moisture ppm | ≤100 | 37 | ASTM D6304 |
| Suspended matter | Free | Free | Visual |

