

SPECIFICATION

Isooctane

| Parameters | Specification |
|-------------------|--|
| CAS Number | 540-84-1 |
| Appearance | Colorless to pale yellow liquid |
| Molecular Formula | C ₈ H ₁₈ |
| Molecular Weight | 114.23 g/mol |
| Boiling Point | 99.3 °C |
| Melting Point | -110.6 °C |
| Flash Point | -43.0 °C |
| Purity | 98–99% |
| Refractive Index | 1.402 |
| Solubility | Insoluble in water; soluble in nonpolar solvents |
| Uses | Used as a reference fuel component to calibrate octane ratings; blending component in gasoline |

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