

# N-HEPTANE

CAS Number: 142-82-5

Other Names: Heptan; Dipropylmethane; Heptyl hydride;  
Dipropyl methane; Gettysolve-C

Formula: C<sub>7</sub>H<sub>16</sub>

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## PRODUCT INTRODUCTION

Heptane is a straight-chain alkane with chemical formula C<sub>7</sub>H<sub>16</sub>. It appears as a clear colorless liquid with a petroleum-like odor. It is miscible with alcohol, chloroform, and ether. It is widely used as non-polar solvent.

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## PHYSICAL AND CHEMICAL PROPERTIES

Density (15°C) (g/cm <sup>3</sup> )	0.685
Appearance	Clear and colorless
Water (ppm)	44.8
Saybolt Color	30
Copper Corrosion 100°C, 2 Hr	1-a
Non-Volatile Matter, mg/100mL	0.37
Aromatics (ppm)	N.D.
Benzene (ppm)	N.D.
Sulfur (ppm)	N.D.
Purity (%)	99.07
Initial Boiling Point (°C)	97.55
Drying Point (°C)	97.8
5-95% (°C)	0.2

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## APPLICATIONS

- Heptane is best recognized as the standard zero-point for the octane rating scale, which is seen on nearly every gasoline pump worldwide.
- The hydroisomerization of n-heptane to form dibranched and tribranched products useful for producing high octane gasoline.

- It is used in paints and coatings, GC analysis, HPLC, spectrophotometry and environmental testing.
- The vulcanization of rubber utilizes heptane as a compounder. In the commercial manufacture of rubber cement, unvulcanized rubber is placed in a solvent of 70-90% heptane. Different grades of rubber cement are created depending on a higher or lower percentage of heptane within the solvent.

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## **PACKING OPTIONS**

Drums

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