

# N-HEPTANE



CAS Number: 142-82-5

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

Formula:  $C_7H_{16}$

## PRODUCT INTRODUCTION

Heptane is a straight-chain alkane with chemical formula  $C_7H_{16}$ . 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.

## 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

## 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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