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N-pentane

GENERAL DESCRIPTION

N-pentanes are some of the primary blowing agents used in the production of polystyrene foam and other foams. Usually, a mixture of n-, i-, and increasingly cyclopentane is used for this purpose. Because of its low boiling point, low cost, and relative safety, pentane is used as a working medium in geothermal power stations. It is added into some refrigerant blends as well.

N-pentanes are relatively inexpensive and are the most volatile alkanes that are liquid at room temperature, so they are often used in the laboratory as solvents that can be conveniently evaporated. However, because of their nonpolarity and lack of functionality, they can only dissolve non-polar and alkyl-rich compounds. Pentanes are miscible with most common nonpolar solvents such as chlorocarbons, aromatics, and ethers. They are also often used in liquid chromatography.

SPECIFICATIONS

Appearance :	Colourless and not turbid
Purity, %	≥95.0
ISOpentane %	≤2.50
C4 %	≤0.5
C6 %	≤1
Sulfuer content Mg/kg	≤30
Free Water Mg/kg	≤150

PROPERTIES

N-pentane

CAS Number: 109-66-0

Colour: Colourless

Appearance: clear, colorless liquid

Chemical name: Pntame

Chemical formula: C₅H₁₂

Boiling point (°C): 36.1 °C

melting point: -129.8°C

Saturated vapor pressure: 53.32kPa/18.5°C

Range of flammability (vol% in air): 1.7-9.8

Flash Point: -40°C

Specific Gravity: 0.63

Vapor Density: 2.48g/L

Vapor pressure 57.90 kPa (at 20.0 °C)

Handling method and safety information

N-pentane is is a highly flammable alicyclic hydrocarbon. Read the Material Safety Data Sheet (MSDS) before use. Dangerous or hazardous reactions do not take place under normal conditions.

Packaging specifications

drum (content: 125 kg), ISO Tank.