

### PRODUCT IDENTIFICATION



**Product Name:** Methyl n-Amyl Ketone (MNAK)

**CAS Number:** 110-43-0

**Molecular Formula:** C<sub>7</sub>H<sub>14</sub>O

**Molecular Weight:** 114.19 g/mol

**Grade:** Reagent

**Purity / Concentration:** Not Available

**Synonyms:** 5-Methyl-2-hexanone, 2-Heptanone

### PRODUCT OVERVIEW

Methyl n-Amyl Ketone (MNAK) Reagent Grade from Alliance Chemical is a high-purity solvent, boasting an assay of 99.2% and a color of 5 APHA. This clear, colorless liquid is primarily used as a solvent in paints, coatings, and pharmaceutical applications due to its excellent solvency properties.

**Grade Significance:** Reagent grade Methyl n-Amyl Ketone signifies a high level of purity, making it suitable for demanding laboratory applications and analytical procedures. The high purity ensures reliable and reproducible results in research, development, and quality control processes.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.2	98	—	GC
Color (APHA)	APHA	5	—	10	ASTM D1209
Specific Gravity (20°C)	g/mL	0.813	0.812	0.814	USP <841>
Residue After Ignition	%	0.0005	—	0.0010	Gravimetric
Water Content	%	0.02	—	0.05	Karl Fischer
Acidity As Acetic Acid	%	0.0010	—	0.0050	Titration

ND = Not Detected. Values are typical and may vary by lot.

### PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid	<b>Odor</b>	Characteristic ketone odor
<b>Form</b>	Liquid	<b>Boiling Point</b>	151°C (304°F)
<b>Melting / Freezing Point</b>	-35°C (-31°F)	<b>Flash Point</b>	53°C (127°F)
<b>Specific Gravity</b>	0.815	<b>Solubility</b>	Soluble in organic solvents, slightly soluble in water
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>14</sub> O	<b>Molecular Weight</b>	114.19 g/mol
<b>Vapor Pressure (20°C)</b>	25 mmHg	<b>Viscosity (25°C)</b>	0.5 cP
<b>Refractive Index (20°C)</b>	1.426	<b>Density (25°C)</b>	0.805 g/mL
<b>Partition Coefficient (log<sub>2.0</sub> P)</b>		<b>Decomposition Temp.</b>	Not easily decomposed; stable at ambient

## APPLICATIONS

1. **Paints and Coatings** — MNAK acts as a solvent in paint and coating formulations. Its solvency properties allow for the proper dissolution and dispersion of resins, pigments, and additives, leading to a high-quality finish.
2. **Pharmaceuticals** — In the pharmaceutical industry, MNAK is used as a solvent for the extraction of active pharmaceutical ingredients (APIs). Its ability to selectively dissolve desired compounds makes it valuable in the extraction and purification processes.
3. **Chemical Synthesis** — MNAK serves as a chemical intermediate in the synthesis of various organic compounds. Its ketone functionality allows it to participate in a range of chemical reactions, making it a versatile building block.
4. **Cleaning and Degreasing** — MNAK is employed as a cleaning agent for removing grease and oils from machinery and equipment. Its solvency power effectively dissolves and removes contaminants, ensuring optimal performance.
5. **Laboratory Research** — Due to its high purity, MNAK Reagent Grade is suitable for use as a solvent in laboratory research. Consistent and reliable results are achieved because of the high purity of this product.

## STORAGE & HANDLING

Proper storage of Methyl n-Amyl Ketone is crucial due to its flammability. It should be stored in a cool, dry, and well-ventilated area, away from heat, sparks, and open flames, as indicated by its H226 hazard statement. This minimizes the risk of fire and maintains product integrity.

- Store in a cool, dry, well-ventilated area away from incompatible materials.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Avoid exposure to heat, sparks, and open flames as MNAK is flammable.
- Ensure proper PPE, including gloves and goggles, are worn when handling.
- Keep away from strong oxidizers and acids to prevent hazardous reactions.

## AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 55 Gallon

## SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Warning**



Hazard Statements:

- H226: Flammable liquid and vapor [Warning Flammable liquids]
- H302: Harmful if swallowed [Warning Acute toxicity, oral]
- H332: Harmful if inhaled [Warning Acute toxicity, inhalation]

**Emergency Contact:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

*For complete safety information, refer to the Safety Data Sheet (SDS) for this product.*

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Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

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