

PRODUCT IDENTIFICATION



Product Name: N-Butyl Acetate
CAS Number: 123-86-4
Molecular Formula: $C_6H_{12}O_2$
Molecular Weight: 116.16 g/mol
Grade: Technical Grade
Purity / Concentration: Not Available
Synonyms: Butyl Acetate, Butyl Ethanoate

PRODUCT OVERVIEW

N-Butyl Acetate is a high-purity technical grade solvent, boasting an assay of 99.2% and an extremely low water content of 0.02%. This colorless, volatile liquid is widely recognized for its effective evaporation rate, making it an essential component in high-performance paint and coating formulations.

Grade Significance: Technical grade indicates that this product meets high industrial standards for performance and consistency, ensuring reliability for manufacturing processes while remaining cost-effective.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Purity Gc	%	99.72	99.5	—	GC/Titration
Color (APHA)	APHA	3	—	10	APHA
Specific Gravity (20°C)	g/mL	0.883	0.882	0.884	Hydrometer @ 25°C
Non Volatile Residue	mg/100mL	≤ 0.005 mg/100mL	—	—	ASTM D1353
Residue On Evaporation	ppm	6	0	20	Evaporation
Water Karl Fischer	%	0.0063	—	0.05	Karl Fischer
Acidity As Acetic	ppm	10	0	50	Titration

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colorless, volatile liquid with a characteristic odor	Odor	Fruity, sweet odor
Form	Liquid	Boiling Point	259.7 °F at 760 mmHg (NTP, 1992)
Melting / Freezing Point	-108.2 °F (NTP, 1992)	Flash Point	72 °F (NTP, 1992)
Specific Gravity	0.882	Solubility	Soluble in organic solvents, slightly soluble in water
Molecular Formula	$C_6H_{12}O_2$	Molecular Weight	116.16 g/mol
Vapor Pressure (20°C)	15 mmHg	Viscosity (25°C)	0.89 cP
Refractive Index (20°C)	1.396	Density (25°C)	0.882 g/mL
Decomposition Temp.	Not readily decomposed under standard storage conditions		

APPLICATIONS

1. **Paints and Coatings** — Used as a primary solvent to adjust viscosity and ensure a smooth, durable finish during the application of paints.
2. **Adhesives** — Functions as a solvent carrier that enhances bonding properties and ensures consistent drying times for various adhesive products.
3. **Pharmaceuticals** — Utilized in the extraction processes to isolate active pharmaceutical ingredients from plant-based raw materials.
4. **Industrial Cleaning** — Employed in heavy-duty cleaning formulations due to its excellent ability to dissolve oils, greases, and industrial residues.

STORAGE & HANDLING

Because N-Butyl Acetate has a flash point of 22°C, it must be stored in a cool, well-ventilated area away from heat, sparks, or open flames to mitigate fire risks. Proper sealing of containers is essential to prevent evaporation and maintain the chemical integrity of the solvent.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Keep away from strong oxidizing agents and acids.
- Ensure proper PPE is worn, including gloves and goggles, when handling.
- Avoid exposure to light to prevent degradation.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Warning**



Hazard Statements:

- H226: Flammable liquid and vapor [Warning Flammable liquids]
- H336: May cause drowsiness or dizziness [Warning Specific target organ toxicity, single exposure; Narcotic effects]

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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