

PRODUCT IDENTIFICATION



Product Name: N-Butyl Acetate Technical Grade

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 Technical Grade is a high-purity solvent characterized by its 99.72% GC purity and low moisture content of 0.0063%. This colorless, volatile liquid is widely utilized in industrial applications for its excellent solvency power and controlled evaporation rate.

Grade Significance: Technical Grade indicates that this product is formulated for industrial and manufacturing processes where high performance is required, though it is not intended for food, drug, or medicinal use.

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 @ 20°C
Non Volatile Residue	mg/100mL	1	—	5	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** — Functions as a primary solvent to ensure smooth application and consistent drying times in high-performance coatings.
2. **Adhesives** — Used to enhance the bonding properties of various materials by facilitating effective resin dissolution.
3. **Pharmaceuticals** — Employed as an extraction solvent for isolating active pharmaceutical ingredients from complex plant materials.
4. **Industrial Cleaning** — Utilized in degreasing formulations due to its superior ability to dissolve stubborn oils and industrial greases.

STORAGE & HANDLING

Because N-Butyl Acetate has a low flash point of 72 °F, it must be stored in a cool, well-ventilated area away from heat sources and open flames to mitigate fire risks. Proper sealing is essential to prevent evaporation and maintain the product's high purity levels.

- 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 vapour
- H336: May cause drowsiness or dizziness
- EUH066: Repeated exposure may cause skin dryness or cracking

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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