

PRODUCT IDENTIFICATION



Product Name: N-Butyl Alcohol Technical Grade

CAS Number: 71-36-3

Molecular Formula: C₄H₁₀O

Molecular Weight: 74.12 g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: Butanol, 1-Butanol

PRODUCT OVERVIEW

N-Butyl Alcohol (1-Butanol) is a versatile technical grade solvent known for its high purity and consistent performance. Our latest batches demonstrate exceptional quality with an assay of 100.1% and minimal moisture content of 0.03%, making it an ideal choice for industrial coatings and chemical synthesis.

Grade Significance: Technical Grade indicates that this product is manufactured to meet industrial performance standards, offering a cost-effective solution where high-purity, laboratory-grade specifications are not required but consistency remains vital.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc	%	100.1	99.5	100.5	GC
Specific Gravity (20°C)	g/mL	0.8098	0.785	0.787	Hydrometer @ 25°C
Water Karl Fischer	%	0.03	0	0.05	Karl Fischer

Values based on 2 batches tested. ND = Not Detected.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colorless, volatile liquid with a characteristic odor	Odor	Mild, alcoholic odor
Form	Liquid	Boiling Point	243.9 °F at 760 mmHg (USCG, 1999)
Melting / Freezing Point	-129 °F (USCG, 1999)	Flash Point	84 °F (USCG, 1999)
Specific Gravity	0.81	Solubility	Miscible with water, alcohols, and many organic solvents
Molecular Formula	C ₄ H ₁₀ O	Molecular Weight	74.12 g/mol
Vapor Pressure (20°C)	5.2 mmHg	Viscosity (25°C)	0.54 cP
Refractive Index (20°C)	1.398	Density (25°C)	0.810 g/mL
Decomposition Temp.	Not readily decomposed under normal conditions		

APPLICATIONS

1. **Paints and Coatings** — Functions as a high-performance solvent that effectively dissolves a wide range of resins and binders to ensure smooth application.
2. **Chemical Manufacturing** — Serves as a critical chemical intermediate in the production of butyl acetate and various esters for industrial use.
3. **Industrial Cleaning** — Utilized in specialized cleaning formulations due to its effective solvency properties and ability to remove stubborn residues.
4. **Analytical Chemistry** — Commonly employed as a mobile phase component in high-performance liquid chromatography for precise analytical testing.

STORAGE & HANDLING

Proper storage is essential because N-Butyl Alcohol is a flammable liquid with a flash point of 84°F, requiring a cool, well-ventilated environment away from ignition sources. Maintaining these conditions prevents the buildup of hazardous vapors and ensures the chemical remains stable and effective for your specific applications.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Avoid contact with strong oxidizing agents and acids.
- Use appropriate personal protective equipment (PPE) such as gloves and goggles.
- Ensure proper ventilation when handling to minimize inhalation exposure.

AVAILABLE PACKAGING

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

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H226: Flammable liquid and vapour
- H302: Harmful if swallowed
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness

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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