

PRODUCT IDENTIFICATION



Product Name: Amyl Acetate ACS Grade

CAS Number: 628-63-7

Molecular Formula: $C_7H_{14}O_2$

Molecular Weight: 130.18 g/mol

Grade: ACS Grade

Purity / Concentration: Not Available

Synonyms: Pentyl Acetate, Amyl Ethanoate

PRODUCT OVERVIEW

Amyl Acetate ACS Grade is a high-purity solvent characterized by its clear, colorless appearance and distinct fruity aroma. With a certified purity of 100.0% and minimal residue levels, this reagent-grade chemical is an essential component for precise laboratory analysis and specialized industrial formulations.

Grade Significance: ACS Grade signifies that this product meets the rigorous purity standards set by the American Chemical Society, ensuring consistent performance for sensitive laboratory and analytical applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Purity Gc	%	100.0	99.5	100.5	GC/Titration
Color (APHA)	APHA	3	—	15	APHA
Specific Gravity (20°C)	g/mL	0.8756	0.8736	0.8776	Hydrometer @ 20°C
Viscosity	cP	0.9	0	—	Per specification
Residue On Evaporation	ppm	3	—	10	Evaporation
Water Karl Fischer	%	ND	0	0.2	Karl Fischer
Acidity As Acetic	%	ND	0	0.01	Titration per ACS/USP
Flash Point	°C	101.0	0	—	Per specification
Molecular Weight	g/mol	130.0	0	—	Calculation / GPC

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear colorless liquid, volatile, slight fruity...	Odor	Fruity, banana-like odor
Form	Liquid	Boiling Point	295 °F at 760 mmHg (USCG, 1999)
Melting / Freezing Point	less than -148 °F (USCG, 1999)	Flash Point	(n-) 91 °F (cc); (all isomers) 106F (cc); (iso-) 69 °F (cc) (USCG, 1999)
Solubility	Organic solvent soluble, minimal water miscibility	Molecular Formula	C ₇ H ₁₄ O ₂
Molecular Weight	130.18 g/mol	Vapor Pressure (20°C)	5.5 mmHg
Viscosity (25°C)	0.9 cP	Refractive Index (20°C)	1.396
Density (25°C)	0.874 g/mL	Partition Coefficient (log P)	3.1
Decomposition Temp.	Not readily decomposed; exothermic decomposition above 200°C		

APPLICATIONS

1. **Analytical Chemistry** — Serves as a reliable mobile phase component in reversed-phase chromatography to facilitate the accurate separation of complex organic compounds.
2. **Paints and Coatings** — Utilized as a high-performance solvent that offers excellent solvency properties for the formulation of durable paints and industrial coatings.
3. **Food and Beverage** — Employed as a flavoring agent to impart a characteristic fruity aroma and flavor profile to a variety of food products.
4. **Pharmaceutical Manufacturing** — Used in the critical extraction of active pharmaceutical ingredients from plant-based raw materials due to its effective chemical solubility.

STORAGE & HANDLING

Due to its classification as a flammable liquid, Amyl Acetate must be stored in a cool, well-ventilated area away from heat sources and open flames to prevent ignition. Maintaining a tightly sealed container is essential to prevent evaporation and minimize the risk of respiratory irritation caused by vapor buildup.

- Store in a cool, dry place away from heat and open flames.
- Use materials compatible with amyl acetate, such as HDPE or glass containers.
- Avoid contact with strong oxidizing agents and acids.
- Ensure proper ventilation in storage areas to minimize vapor accumulation.
- Wear appropriate personal protective equipment (PPE) including gloves and goggles when handling.

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
- H319: Causes serious eye irritation
- 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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