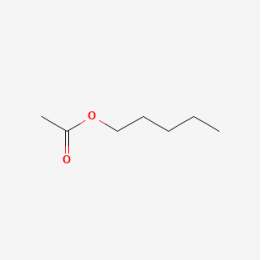
Technical Data Sheet

Amyl Acetate

Technical

Alliance Code	Revised	Revision
amyl-acetate	2026-10-08	1.6

CAS number 628-63-7	UN number UN1104	Hazard class · packing group 3 · PG III
 Structure · PubChem	Grade Technical	Signal word **Warning**
Hazards Flammable · Irritant / harmful · H226 H319 H335		
Proper shipping name Amyl acetates		

IDENTITY & COMPOSITION

PRODUCT NAME
Amyl Acetate

ALLIANCE CODE
amyl-acetate

GRADE
Technical

CONCENTRATION
—

CAS NUMBER
628-63-7 Adjudicated

FORMULA
C7H14O2 Adjudicated

MOLECULAR WEIGHT
130.18 Adjudicated

PRODUCT TYPE
Pure substance

SPECIFICATIONS

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Assay (n-amyl acetate)	≥99%	—	—	Interpreted
Distillation range (760 mmHg)	145-152 C	—	ASTM D1078	Interpreted
Acidity (as acetic acid)	0.030 % max	—	ASTM D1613 / titration	Interpreted
Water	0.10 % max	—	ASTM E1064 / Karl Fischer	Interpreted

Values are reproduced from the current product reference. Source labels do not by themselves establish a supplier guarantee or a test result for your lot. Confirm applicable acceptance limits and request lot-specific documentation.

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE Technical	—	—	current
ACS Grade	—	—	amyl-acetate-acs-grade

Typical assay for each grade is the average of its recent lots. Confirm a grade meets your specification before substituting it.

PHYSICAL & CHEMICAL PROPERTIES

PROPERTY	VALUE	SOURCE
Appearance	Liquid	Interpreted
Form	Liquid	Adjudicated
Odor	Sweet, banana-or pear-like	Adjudicated
Specific Gravity	0.873–0.879 at 20 °C (water = 1)	Adjudicated
Density	0.876 g/cm3 at 20 °C	Adjudicated
Boiling Point	145–152 °C (293–306 °F) distillation range	Adjudicated
Melting Point	-71 °C (-96 °F)	Adjudicated
Flash Point	23–25 °C (73–77 °F), closed cup	Adjudicated
Vapor Pressure	4 mmHg (5.3 hPa) at 20 °C	Adjudicated
Vapor Density	4.5 (air = 1)	Adjudicated
Solubility (water)	Slightly soluble in water (up to about 10 g/L at 20 °C); miscible with alcohols, ethers and most organic solvents	Adjudicated

Polar solvent — purity vs. intended end-use (electronics, pharma, general industrial) is the dominant grade consideration. See application guidance for grade selection.

MATERIALS OF CONSTRUCTION SERVICE ENVELOPE ≈ 100%

MATERIAL	RATING	MAX T (°C)	NOTES	SOURCE
Buna-N (NBR) Elastomer	Not recommended	—	Unsatisfactory: not recommended for any use.	CP Lab Safety Chemical Compatibility Chart
EPDM Elastomer	Excellent	—	Excellent compatibility.	CP Lab Safety Chemical Compatibility Chart
Viton (FKM) Elastomer	Not recommended	—	Severe effect: not recommended for any use.	CP Lab Safety Chemical Compatibility Chart
PTFE Fluoropolymer	Excellent	—	Excellent.	CP Lab Safety Chemical Compatibility Chart
Aluminium Metal	Excellent	—	Excellent.	CP Lab Safety Chemical Compatibility Chart
Carbon Steel Metal	Fair	—	Fair: moderate effect, not recommended for continuous use.	CP Lab Safety Chemical Compatibility Chart
Stainless Steel Metal	Excellent	22	Excellent; satisfactory to 72 °F (22 °C).	CP Lab Safety Chemical Compatibility Chart
LDPE Thermoplastic	Fair	22	Fair: moderate effect, not recommended for continuous use; satisfactory to 72 °F (22 °C).	CP Lab Safety Chemical Compatibility Chart
Polypropylene (PP) Thermoplastic	Good	22	Good: minor effect, slight corrosion or discoloration; satisfactory to 72 °F (22 °C).	CP Lab Safety Chemical Compatibility Chart
PVC Thermoplastic	Not recommended	—	Severe effect: not recommended for any use.	CP Lab Safety Chemical Compatibility Chart

Ratings reflect the service envelope (concentration × temperature) shown. Always confirm against your specific duty cycle and contact-time before equipment selection. The most cautious rating across overlapping references is shown.

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN1104 49 CFR 172.101

HAZARD CLASS

3 Adjudicated

PACKING GROUP

III Adjudicated

PROPER SHIPPING NAME

Amyl acetates Adjudicated

GHS / OSHA HCS 2024

SIGNAL WORD

Warning Adjudicated

H-CODES (HAZARD STATEMENTS)

H226, H319, H335 Adjudicated

P-CODES (PRECAUTIONARY STATEMENTS)

P210, P233, P240, P241, P242, P243, P261, P264, P271, P280, P304+P340, P305+P351+P338, P312, P337+P313, P403+P233, P403+P235, P405, P501

Adjudicated

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

100 ppm TWA OSHA 29 CFR 1910.1000

ACGIH TLV

50 ppm TWA; 100 ppm STEL (pentyl acetate, all isomers)

Adjudicated

NIOSH REL

100 ppm (525 mg/m^3) TWA Adjudicated

NIOSH IDLH

1,000 ppm Adjudicated

Transport descriptions reflect 49 CFR 172.101 lookup at time of publication. Sourced data: NIOSH Pocket Guide for REL/IDLH, OSHA Z-Tables for PEL. Always verify against the latest regulatory text before shipment-critical decisions.

HEALTH & FIRE HAZARD

ACUTE TOXICOLOGY

LD$_{50}$ ORAL

6,500 mg/kg (rat) Adjudicated

LD$_{50}$ DERMAL (RABBIT)

> 5,000 mg/kg (8,359 mg/kg, Wako)

Adjudicated

Acute toxicology values from SDS Section 11 or NIOSH RTECS.

APPLICATIONS

Used as a solvent labdepotinc.com

Used as a test odorant in studies of olfactory function and of the psychosocial effects of odor ottokemi.com

Applications are drawn from published manufacturer and supplier documentation; each is sourced. Suitability for a specific use is the buyer's to confirm.

STORAGE & HANDLING

RECOMMENDED STORAGE

Keep tightly closed in a cool, well-ventilated flammables area away from ignition sources and oxidizers. Store locked up. Ground and bond containers.

Adjudicated

HANDLING PRECAUTIONS

Use chemical-resistant gloves and splash goggles. Bond and ground during transfer to prevent static accumulation. Eliminate ignition sources within vapor envelope.

Class-level guidance — not product-specific; the SDS controls.

INCOMPATIBILITIES

Strong oxidizing agents; strong acids and bases; nitrates.

Adjudicated

SHELF LIFE

Consult Technical Services for product-specific shelf life

For full hazard, PPE, and emergency response guidance, refer to the Safety Data Sheet (SDS) for this product. The SDS controls in all cases where guidance differs.

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

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UN1104, Amyl acetates, 3, PG III
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Sourced from 49 CFR 172.101. Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS	PLACARD	PACKING GROUP
77.5	Flammable Liquid	PG III

REVISION HISTORY

Last reviewed 2026-10-08 by Andre Taki, Chief Commercial Officer, DOT Hazmat–certified (49 CFR 172.704).

VERSION	DATE	CHANGE	TRIGGER
1.6	2026-10-08	Canonical data updated: 26 fields changed via the provenance/adjudication pipeline. • ghsClassification · canonical change (coa.data_provenance / adjudication) • hazard_h_codes · canonical change (coa.data_provenance / adjudication) • hazard_p_codes · canonical change (coa.data_provenance / adjudication) • synonyms · canonical change (coa.data_provenance / adjudication) • restrictions_on_use · canonical change (coa.data_provenance / adjudication) • odor · canonical change (coa.data_provenance / adjudication) • flashPoint · canonical change (coa.data_provenance / adjudication) • meltingPoint · canonical change (coa.data_provenance / adjudication) • vaporPressure · canonical change (coa.data_provenance / adjudication) • vaporDensity · canonical change (coa.data_provenance / adjudication) • solubility · canonical change (coa.data_provenance / adjudication) • autoIgnitionTemperature · canonical change (coa.data_provenance / adjudication) • explosiveLimits · canonical change (coa.data_provenance / adjudication) • oel_acgih_tlv · canonical change (coa.data_provenance / adjudication) • oel_niosh_rel · canonical change (coa.data_provenance / adjudication) • oel_idlh · canonical change (coa.data_provenance / adjudication) • incompatible_materials · canonical change (coa.data_provenance / adjudication) • conditions_to_avoid · canonical change (coa.data_provenance / adjudication) • hazardous_decomposition_products · canonical change (coa.data_provenance / adjudication) • storage_precautions · canonical change (coa.data_provenance / adjudication) • rcra_waste_codes · canonical change (coa.data_provenance / adjudication) • cercla_rq · canonical change (coa.data_provenance / adjudication) • dot_transport_note · canonical change (coa.data_provenance / adjudication) • recommended_use · canonical change (coa.data_provenance / adjudication) • specificGravity · canonical change (coa.data_provenance / adjudication) • boilingPoint · canonical change (coa.data_provenance / adjudication)	canonical_change
1.5	2026-10-05	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. • oel_niosh_rel · canonical change (coa.data_provenance / adjudication) • oel_idlh · canonical change (coa.data_provenance / adjudication) • oel_osha_pel · canonical change (coa.data_provenance / adjudication)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
1.4	2026-09-24	Canonical data updated: 8 fields changed via the provenance/adjudication pipeline. • casNumber · canonical change (coa.data_provenance / adjudication) • formula · canonical change (coa.data_provenance / adjudication) • molecularWeight · canonical change (coa.data_provenance / adjudication) • physicalProperties · canonical change (coa.data_provenance / adjudication) • meltingPoint · canonical change (coa.data_provenance / adjudication) • boilingPoint · canonical change (coa.data_provenance / adjudication) • flashPoint · canonical change (coa.data_provenance / adjudication) • specificGravity · canonical change (coa.data_provenance / adjudication)	canonical_change
1.3	2026-08-05	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • unNumber · canonical change (coa.data_provenance / adjudication)	canonical_change
1.2	2026-07-22	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • dotSubsidiaryHazardClass · canonical change (coa.data_provenance / adjudication)	canonical_change
1.1	2026-07-17	Canonical data re-verified: 7 fields updated against independent vendor SDSs, CLP Annex VI, 49 CFR, and OSHA HazCom 2024 (GHS classification, hazard/precautionary codes, signal word, physical properties as applicable). • countryOfOrigin · canonical adjudication / reground (coa.data_provenance) • ghsClassification · canonical adjudication / reground (coa.data_provenance) • hazard_h_codes · canonical adjudication / reground (coa.data_provenance) • hazard_p_codes · canonical adjudication / reground (coa.data_provenance) • hsCode · canonical adjudication / reground (coa.data_provenance) • packingGroup · canonical adjudication / reground (coa.data_provenance) • signalWord · canonical adjudication / reground (coa.data_provenance)	canonical_change
1.0	2026-05-20	Initial URL-first TDS published from canonical chemistry registry.	initial

This Technical Data Sheet is provided for technical reference. The Safety Data Sheet (SDS) controls in all cases where guidance differs. Values reflect Alliance Chemical canonical data at time of generation; subsequent revisions are recorded in the Revision History above.