

TECHNICAL DATA SHEET

Methyl n-Amyl Ketone (MNAK) ACS Grade

ACS Grade

CAS NUMBER	ALLIANCE CODE	GENERATED
110-43-0	methyl-n-amyl-ketone-mnak-acs-grade	2026-08-31
REVISION	REVIEWED	
1.3	2026-07-17 · Andre Taki	

IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Methyl n-Amyl Ketone (MNAK) ACS Grade	methyl-n-amyl-ketone-mnak-acs-grade
GRADE	CONCENTRATION
ACS Grade	—
CAS NUMBER	FORMULA
110-43-0 PubChem	C7H14O PubChem
MOLECULAR WEIGHT	PRODUCT TYPE
114.19 PubChem	pure_substance

SPECIFICATIONS

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Assay (GC)	Min. 99.0 %	99.8 %	GC	Supplier specification
Ethanol (GC)	Max. 0.20 %	0.01 %	GC	Supplier specification
Identity (IR)	complying	Passes test	IR	Supplier specification

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Other ketones	Max. 0.50 %	0.08 %	—	Supplier specification
Free acid (as CH ₃ COOH)	Max. 0.01 %	0.002 %	—	Supplier specification
Water (Karl Fischer)	Max. 0.05 %	0.02 %	Karl Fischer	Supplier specification
Residue on Evaporation	Max. 0.005 %	0.0008 %	ASTM D1353 / gravimetric	Interpreted

Specification values are guaranteed limits. Typical values are representative of production lots and are not guaranteed. Lot-specific certificates of analysis ship with every order.

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE ACS Grade	—	—	current
Reagent	—	—	methyl-n-amyl-ketone-mnak

Typical assay shown is the rolling-window mean from the sibling product's most recent lots. Grade selection drives downstream end-use — verify the sibling grade matches your specification before substitution.

PHYSICAL & CHEMICAL PROPERTIES

One or more physical-property values are temporarily suppressed pending verification against vendor COA data. For complete properties refer to the Safety Data Sheet (SDS) or contact sales@alliancechemical.com.

PROPERTY	VALUE	SOURCE
Appearance	Clear / Colourless / Liquid	Supplier specification
Form	Liquid	Published reference
Color	Max. 10	Interpreted
Odor	Penetrating fruity odor	Published reference
Density	0.813–0.816 g/ml	Supplier specification
Boiling Point	149–150°C	Supplier specification
Melting Point	–31 °F (USCG, 1999)	Published reference
Flash Point	102 °F (USCG, 1999)	Published reference
Vapor Pressure	3 mmHg (NIOSH, 2024)	Published reference
Refractive Index (nD 20)	1.405–1.409	Supplier specification

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN1110 [Adjudicated](#)

PACKING GROUP

III [Adjudicated](#)

HAZARD CLASS

3 [Adjudicated](#)

PROPER SHIPPING NAME

n-Amyl methyl ketone [Adjudicated](#)

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Warning [Adjudicated](#)

H-CODES (HAZARD STATEMENTS)

H226, H302, H332, H336 [Adjudicated](#)

P-CODES (PRECAUTIONARY STATEMENTS)

P210, P233, P240, P241, P242, P243, P261,
P264, P270, P271, P280, P301+P312,
P303+P361+P353, P304+P340, P312, P313,
P330, P370+P378, P403+P233, P403+P235,
P405, P501

[Adjudicated](#)

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— [no canonical](#)

ACGIH TLV

— [no canonical](#)

NIOSH REL

— [no canonical](#)

NIOSH IDLH

— [no canonical](#)

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

APPLICATIONS

Solvent for cellulosic lacquers, acrylic lacquers, and high-solids coatings

productcatalog.eastman.com

Polymerization solvent for high solids acrylic resins productcatalog.eastman.com

Used in auto OEM, auto-refinish and general industrial coatings, as a herbicide intermediate, and as a process solvent.

productcatalog.eastman.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

Store at room temperature, 25 to 40 C

[srlchem.com](https://www.srlchem.com)

INCOMPATIBILITIES

Consult the SDS for material-specific incompatibilities.

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

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.

HANDLING PRECAUTIONS

Use standard chemical PPE — splash goggles, gloves, lab coat. Refer to SDS for hazard-specific PPE requirements.

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

SHELF LIFE

60 months [srlchem.com](https://www.srlchem.com)

Stored at 25 to 40 C (room temperature)

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

UN1110, n-Amyl methyl ketone, 3, PG III

Sourced from 49 CFR 172.101. Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS
77.5

PLACARD
Flammable Liquid

PACKING GROUP
PG III

REVISION HISTORY

Last reviewed 2026-07-17 by Andre Taki, DOT Hazmat Specialist.

VERSION	DATE	CHANGE	TRIGGER
1.3	2026-07-22	Canonical data updated: 2 fields changed via the provenance/adjudication pipeline. - dotSubsidiaryHazardClass · canonical change (coa.data_provenance / adjudication) - dotProperShippingName · canonical change (coa.data_provenance / adjudication)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
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). • <code>bulkThresholdGallons</code> · canonical adjudication / reground (<code>coa.data_provenance</code>) • <code>countryOfOrigin</code> · canonical adjudication / reground (<code>coa.data_provenance</code>) • <code>ghsClassification</code> · canonical adjudication / reground (<code>coa.data_provenance</code>) • <code>hazard_h_codes</code> · canonical adjudication / reground (<code>coa.data_provenance</code>) • <code>hazard_p_codes</code> · canonical adjudication / reground (<code>coa.data_provenance</code>) • <code>hsCode</code> · canonical adjudication / reground (<code>coa.data_provenance</code>) • <code>regulationRule</code> · canonical adjudication / reground (<code>coa.data_provenance</code>)	canonical_change
1.2	2026-07-17	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. • <code>ghsClassification</code> · canonical change (<code>coa.data_provenance / adjudication</code>) • <code>hazard_h_codes</code> · canonical change (<code>coa.data_provenance / adjudication</code>) • <code>hazard_p_codes</code> · canonical change (<code>coa.data_provenance / adjudication</code>)	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.