

TECHNICAL DATA SHEET

Methyl Ethyl Ketone (MEK)

CAS NUMBER	ALLIANCE CODE	GENERATED
78-93-3	methyl-ethyl-ketone-mek	2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Methyl Ethyl Ketone (MEK)	methyl-ethyl-ketone-mek
GRADE	CONCENTRATION
—	—
CAS NUMBER	FORMULA
78-93-3 PubChem	C4H8O PubChem
MOLECULAR WEIGHT	PRODUCT TYPE
72.11 PubChem	pure_substance

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE —	—	—	current
ACS Grade	—	—	methyl-ethyl-ketone-mek-acs-grade

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.

FORM

Liquid **Product record**

ODOR

Acetone-like odor **Product record**

DENSITY

0.806 at 68 °F (USCG, 1999) – Less dense than water; will float **Product record**

MELTING POINT

–123.3 °F (NTP, 1992) **Product record**

VAPOR PRESSURE

77.5 mmHg at 68 °F ; 100 mmHg at 77.0 °F (NTP, 1992) **Product record**

REFRACTIVE INDEX (ND 20)

1.3790 **Vendor COA**

COLOR

5.0000 APHA **Vendor COA**

SPECIFIC GRAVITY (20 °C)

0.8050 g/mL **Vendor COA**

BOILING POINT

81.0000 °C **Vendor COA**

FLASH POINT

26 °F (NTP, 1992) **Product record**

SOLUBILITY (WATER)

greater than or equal to 100 mg/mL at 66 °F (NTP, 1992) **Product record**

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN1193 [Vendor Label](#)

PACKING GROUP

II [Adjudicated](#)

HAZARD CLASS

3 [Adjudicated](#)

PROPER SHIPPING NAME

Ethyl methyl ketone [Adjudicated](#)

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger [Adjudicated](#)

H-CODES (HAZARD STATEMENTS)

H225, H319, H336, EUH066 [ECHA CLP Annex VI](#)

P-CODES (PRECAUTIONARY STATEMENTS)

P210, P233, P240, P241, P242, P243, P261, P264,
P271, P280, P303+P361+P353, P304+P340,
P305+P351+P338, P312, P337+P313, P370+P378,...

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

200 ppm TWA [OSHA 29 CFR 1910.1000](#)

ACGIH TLV

— [unknown](#)

NIOSH REL

200 ppm TWA / 300 ppm STEL

[NIOSH Pocket Guide](#)

NIOSH IDLH

3000 ppm [NIOSH Pocket Guide](#)

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.

Supplier Qualification Packet

One zipped download containing the TDS, SDS, latest lot COA (when available), and a fresh Letter of Continuing Guaranty for Methyl Ethyl Ketone (MEK). Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

CATALOG EQUIVALENTS CROSS-REFERENCE VS MAJOR CHEMICAL SUPPLIERS

SIGMA-ALDRICH

SKU	GRADE	CONC.	MATCH	NOTES
360473	ACS Reagent	99%	Exact	ACS Reagent ≥99%

Cross-references are informational. Confirm against the manufacturer's current specification before substitution. Competitor trademarks are property of their respective owners.

APPLICATION GUIDANCE

Methyl Ethyl Ketone (MEK) application guidance is available on request. Contact Alliance Chemical Technical Services for grade-specific use recommendations.

STORAGE & HANDLING

RECOMMENDED STORAGE

Cool, dry, well-ventilated area in original sealed containers. Refer to product SDS for material-specific guidance.

INCOMPATIBILITIES

Consult the SDS for material-specific incompatibilities.

HANDLING PRECAUTIONS

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

SHELF LIFE

24 months from date of manufacture in sealed, original packaging

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)

UN1193, Ethyl methyl ketone, 3, PG II

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

NMFC CLASS 70	PLACARD Flammable Liquid	PACKING GROUP PG II
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REVISION HISTORY

Last reviewed 2026-05-20 by Hossein Taki, Vice President (Vice President, Alliance Chemical · CAGE Code 1LT50 · DOT Hazmat Registrant #2188383).

VERSION	DATE	CHANGE	TRIGGER
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.

ALLIANCE CHEMICAL

Order Methyl Ethyl Ketone (MEK)

Bulk & packaged sizes · COA/SDS ships with every order