

TECHNICAL DATA SHEET

Methyl Isobutyl Ketone (MIBK) ACS Grade

ACS Grade

CAS NUMBER

108-10-1

ALLIANCE CODE

methyl-isobutyl-ketone-mibk-acsg
grade

GENERATED

2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME

Methyl Isobutyl Ketone (MIBK) ACS Grade

ALLIANCE CODE

methyl-isobutyl-ketone-mibk-acsg
grade

GRADE

ACS Grade

CONCENTRATION

—

CAS NUMBER

108-10-1 [PubChem](#)

FORMULA

C6H12O [PubChem](#)

MOLECULAR WEIGHT

100.16 [PubChem](#)

PRODUCT TYPE

pure_substance

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE ACS Grade	—		— current
Technical Grade	—		— methyl-isobutyl-ketone-mibk-technical-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

Pleasant odor **Product record**

DENSITY

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

MELTING POINT

–120.5 °F (NTP, 1992) **Product record**

VAPOR PRESSURE

5 mmHg at 67.5 °F ; 10 mmHg at 86.0 °F (NTP, 1992) **Product record**

COLOR

2.0000 APHA **Vendor COA**

SPECIFIC GRAVITY (20 °C)

0.8020 g/mL **Vendor COA**

BOILING POINT

243 to 244 °F at 760 mmHg (NTP, 1992) **Product record**

FLASH POINT

73 °F (NTP, 1992) **Product record**

SOLUBILITY (WATER)

1 to 5 mg/mL at 70 °F (NTP, 1992) **Product record**

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN1245 [Vendor Label](#)

PACKING GROUP

II [Adjudicated](#)

HAZARD CLASS

3 [Adjudicated](#)

PROPER SHIPPING NAME

Methyl isobutyl ketone [Adjudicated](#)

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger [Adjudicated](#)

H-CODES (HAZARD STATEMENTS)

H225, H319, H332, H335, H351, EUH066

[ECHA CLP Annex VI](#)

P-CODES (PRECAUTIONARY STATEMENTS)

P201, P202, P210, P233, P240, P241, P242, P243,
P260, P261, P264, P271, P280, P281,
P303+P361+P353, P304+P340, P305+P351+P338,...

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

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

NIOSH REL

50 ppm TWA / 75 ppm STEL

[NIOSH Pocket Guide](#)

ACGIH TLV

— [unknown](#)

NIOSH IDLH

500 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 Isobutyl Ketone (MIBK) ACS Grade. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Methyl Isobutyl Ketone (MIBK) ACS Grade (ACS Grade) 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)

UN1245, Methyl isobutyl 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

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 Isobutyl Ketone (MIBK) ACS Grade

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