

TECHNICAL DATA SHEET

Sodium Bisulfite 25% ACS Grade

ACS · 25%

CAS NUMBER
7631-90-5

ALLIANCE CODE
sodium-bisulfite-25-ac-grade

GENERATED
2026-07-21

1. IDENTITY & COMPOSITION

PRODUCT NAME
Sodium Bisulfite 25% ACS Grade

ALLIANCE CODE
sodium-bisulfite-25-ac-grade

GRADE
ACS

CONCENTRATION
25%

CAS NUMBER
7631-90-5 Adjudicated

FORMULA
HNaO3S Adjudicated

MOLECULAR WEIGHT
104.06 Adjudicated

PRODUCT TYPE
solution

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE ACS	25%	—	current
—	40%	—	sodium-bisulfite-40
ACS Grade	40%	—	sodium-bisulfite-40-ac-grade
—	25%	—	sodium-bisulfite-25
—	—	—	sodium-bisulfite-10-ac-grade
—	—	—	sodium-bisulfite-10-technical-grade

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
—	—	—	sodium-bisulfite-15-acs-grade
—	—	—	sodium-bisulfite-15-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

APPEARANCE	FORM
Clear, colorless to light-yellow liquid	Liquid
Product record	Product record
ODOR	PH
Slight sulfur dioxide odor	3.5–5.0
Product record	Product record
SPECIFIC GRAVITY (20 °C)	DENSITY
~1.20	~1.18–1.22 g/cm³ (25%, 20°C)
Product record	Product record
BOILING POINT	MELTING POINT
~100–102 °C	< 0 °C
Product record	Product record
FLASH POINT	SOLUBILITY (WATER)
Not applicable (non-combustible aqueous solution)	Miscible with water
Product record	Product record

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN2693 **Adjudicated**

PACKING GROUP

III **Adjudicated**

HAZARD CLASS

8 **Adjudicated**

PROPER SHIPPING NAME

Bisulfites, aqueous solutions, n.o.s. (Sodium bisulfite) **Adjudicated**

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger **Adjudicated**

H-CODES (HAZARD STATEMENTS)

EUH031, H302, H318 **Adjudicated**

P-CODES (PRECAUTIONARY STATEMENTS)

P264, P270, P301+P312, P330, P501 **Adjudicated**

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— **unknown**

ACGIH TLV

— **unknown**

NIOSH REL

— **unknown**

NIOSH IDLH

— **unknown**

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 Sodium Bisulfite 25% ACS Grade. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Sodium Bisulfite 25% ACS Grade (ACS) 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)

UN2693, Bisulfites, aqueous solutions, n.o.s. (Sodium bisulfite), 8, PG III

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

NMFC CLASS 65	PLACARD Corrosive	PACKING GROUP PG III
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TEST METHODS

PARAMETER	METHOD	AUTHORITY	UNIT
Appearance	Visual Inspection	—	
Arsenic	ICP-MS	—	ppm
Assay	Titration/Gravimetric	—	%
Calcium	ICP-MS	—	%
Chloride	ICP	—	%
Fluoride	Ion Chromatography	—	%
Heavy Metals	ICP-MS (as Pb)	—	ppm

PARAMETER	METHOD	AUTHORITY	UNIT
Insoluble	Gravimetric	—	%
Insolubles	Filtration	—	%
Iron	ICP	—	%
Lead	ICP-MS	—	ppm
Magnesium	ICP-MS	—	%
Mercury	ICP-MS	—	ppm
Moisture	Karl Fischer	—	%
pH	pH Meter	—	
Potassium	ICP-MS	—	%
Residue	Residue on Ignition	—	%
Selenium	ICP-MS	—	ppm
Silica	Gravimetric	—	%
Specific Gravity	Hydrometer @ 25°C	—	g/mL
Sulfate	ICP-MS	—	%

Methods listed are those used to generate the referenced COA. Equivalent or compendial methods may be substituted with documented bridging.

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 Sodium Bisulfite 25% ACS Grade

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