

TECHNICAL DATA SHEET

Xylene Technical Grade

Reagent

CAS NUMBER	ALLIANCE CODE	GENERATED
1330-20-7	xylene	2026-08-31
REVISION	REVIEWED	
1.5	2026-06-18 · Andre Taki	

IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
Xylene Technical Grade	xylene
GRADE	CONCENTRATION
Reagent	—
CAS NUMBER	FORMULA
1330-20-7 Adjudicated	C8H10 Alliance SDS
MOLECULAR WEIGHT	PRODUCT TYPE
106.17 g/mol Alliance SDS	pure_substance

SPECIFICATIONS

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
Assay (Xylene Isomers+Ethylene Benzene)	>98.50%	99.4 %	—	Supplier specification
Bromine index	100 mg/100g max	10	—	Supplier specification
Dry Point (DP)	143 °C maximum	140.5 °C	ASTM D850 (mod)	Supplier specification

TEST	SPECIFICATION	TYPICAL	METHOD	SOURCE
GC Compared to Std	PASS	Passes test	—	Supplier specification
Sulfur	Max 1.0 mg/kg	0.3 mg/kg	—	Supplier specification
Sulfur Compounds	Max 1.0 mg/kg	0.3 mg/kg	—	Supplier specification
Toluene	Max 0.5%	0.1 %	—	Supplier specification
Water	Max 0.5%	0.020 %	—	Supplier specification
Copper Corrosion, 3 h @ 50 °C	Class 1 max	1a	ASTM D849	Interpreted
acid wash acid phase	6 max	1	—	Supplier specification
c8aromatics	98 WT % min	99.4 WT %	—	Supplier specification
c9aromatics	1.5 WT % max	0.3 WT %	—	Supplier specification
ethylbenzene	20 Wt% max	17.0 Wt%	—	Supplier specification
total non-aromatics	0.5 WT% max	0.2 WT%	—	Supplier specification

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 Reagent	—	—	current

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
ACS Grade	—	—	xylene-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

PROPERTY	VALUE	SOURCE
Appearance	Clear	Supplier specification
Form	Liquid	Published reference
Color	6 Max	Supplier specification
Specific Gravity (20 °C)	0.865 – 0.875	Supplier specification
Boiling Point	Not applicable	Adjudicated
Melting Point	–47	Published reference
Flash Point	25	Published reference
Solubility (water)	Low water solubility, excellent organic solvent	Published reference

MATERIALS OF CONSTRUCTION

MATERIAL	RATING	MAX T (°C)	NOTES	SOURCE
Buna-N (NBR) Elastomer	Good	80	Good for non-aromatic hydrocarbons; poor for aromatics.	Parker O-ring Chemical Compatibility
EPDM Elastomer	Not recommended	—	Swells in hydrocarbons; never use.	Parker O-ring Chemical Compatibility

MATERIAL	RATING	MAX T (°C)	NOTES	SOURCE
Viton (FKM) Elastomer	Excellent	100	Standard for hydrocarbon service.	Parker O-ring Chemical Compatibility
PTFE Fluoropolymer	Excellent	200	Universal.	Cole-Parmer Chemical Compatibility
316L Stainless Steel Metal	Excellent	100	Inert.	Cole-Parmer Chemical Compatibility
Carbon Steel Metal	Good	80	Acceptable for dry hydrocarbons.	Cole-Parmer Chemical Compatibility
HDPE Thermoplastic	Not recommended	—	Aromatic solvents swell and dissolve HDPE.	Cole-Parmer Chemical Compatibility

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

UN1307 [49 CFR 172.101](#)

PACKING GROUP

III [Adjudicated](#)

HAZARD CLASS

3 [Adjudicated](#)

PROPER SHIPPING NAME

Xylenes [Adjudicated](#)

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger [Adjudicated](#)

H-CODES (HAZARD STATEMENTS)

H226, H304, H312, H315, H319, H332, H335, H373

[ECHA CLP Annex VI](#)

P-CODES (PRECAUTIONARY STATEMENTS)

P210, P233, P240, P241, P242, P243, P260, P261, P264, P270, P271, P280, P301+P310, P302+P352, P303+P361+P353, P304+P340, P305+P351+P338, P312, P314, P321, P331, P332+P313, P337+P313, P362, P370+P378, P403+P233, P403+P235, P405, P501

[ECHA CLP Annex VI](#)

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

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

ACGIH TLV

— [no canonical](#)

NIOSH REL

100 ppm TWA / 150 ppm STEL

NIOSH IDLH

900 ppm [NIOSH Pocket Guide](#)

[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.

CATALOG EQUIVALENTS CROSS-REFERENCE VS MAJOR CHEMICAL SUPPLIERS

SIGMA-ALDRICH

SKU	GRADE	CONC.	MATCH	NOTES
534056	ACS Reagent	98.5%	Exact	ACS Reagent xylenes mixed isomers

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

APPLICATIONS

High-solvency aromatic solvent used in adhesives, coatings, roofing, cleaning and printing

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

Used as a reagent, solvent and adhesive component in the rubber, printing, leather, paint and medical (histology) industries

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

Technical grade material is intended for industrial applications and large-scale commercial manufacturing

[laballey.com](https://www.laballey.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

Cool, well-ventilated flammable-liquid storage. Tightly sealed containers. Segregate from oxidizers. Bond and ground bulk storage; consider inert gas blanketing for volatile solvents.

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

INCOMPATIBILITIES

Strong oxidizers, halogens, nitric acid. Some grades react with rubber and certain plastics — verify gasket and hose compatibility.

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

HANDLING PRECAUTIONS

Eliminate ignition sources. Use chemical-resistant nitrile or PVA gloves. Bond and ground all transfer equipment. Vapors heavier than air — control ventilation accordingly.

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

SHELF LIFE

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

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)

UN1307, Xylenes, 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
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REVISION HISTORY

Last reviewed 2026-06-18 by Andre Taki, DOT Hazmat Specialist.

VERSION	DATE	CHANGE	TRIGGER
1.5	2026-08-09	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. boilingPoint · canonical change (coa.data_provenance / adjudication)	canonical_change
1.4	2026-08-05	Canonical data updated: 3 fields changed via the provenance/adjudication pipeline. - hazardClass · canonical change (coa.data_provenance / adjudication) - packingGroup · canonical change (coa.data_provenance / adjudication) - unNumber · canonical change (coa.data_provenance / adjudication)	canonical_change
1.3	2026-07-22	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. dotSubsidiaryHazardClass · canonical change (coa.data_provenance / adjudication)	canonical_change
1.2	2026-07-17	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. dotProperShippingName · canonical change (coa.data_provenance / adjudication)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
1.1	2026-06-18	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). - boilingPoint · canonical adjudication / reground (coa.data_provenance) - casNumber · canonical adjudication / reground (coa.data_provenance) - color · canonical adjudication / reground (coa.data_provenance) - countryOfOrigin · canonical adjudication / reground (coa.data_provenance) - ghsClassification · canonical adjudication / reground (coa.data_provenance) - hsCode · canonical adjudication / reground (coa.data_provenance) - specificGravity · 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.