

PRODUCT IDENTIFICATION



Product Name: Xylene Technical Grade

CAS Number: 1330-20-7

Molecular Formula: C₈H₁₀

Molecular Weight: 106.17 g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: Dimethylbenzene, Xylol

PRODUCT OVERVIEW

Xylene Technical Grade (CAS 1330-20-7) is a high-purity, volatile aromatic solvent characterized by a 100.0% assay and extremely low moisture content of 13 ppm. This clear, colorless liquid is essential for industrial formulations requiring precise chemical consistency and efficient evaporation rates.

Grade Significance: Technical Grade ensures that the product meets high-performance purity standards suitable for industrial manufacturing, balancing cost-effectiveness with the consistent chemical properties required for reliable results.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc Fid	%	100.0	99.5	100.5	GC-FID
Color (APHA)	APHA	≤ 20 APHA	—	—	ASTM D1209
Specific Gravity (20°C)	g/mL	0.8713	0.865	0.875	Hydrometer @ 20°C
Water Karl Fischer	ppm	13	—	100.0	ASTM E203
Chloride Cl	ppm	1	0	—	Ion Chromatography
Sulfate So4	ppm	1	0	1	Ion Chromatography
Distillation Range	°C	138.0	137.0	143.0	Per specification
Distillation Range Width	°C	2.5	—	5	ASTM D1078
Nitrogen	ppm	0.5	—	1	Kjeldahl / Chemiluminescence

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless, volatile aromatic liquid	Odor	Sweet, aromatic odor
Form	Liquid	Boiling Point	138°C (280.4°F)
Melting / Freezing Point	-47°C (-52.6°F)	Flash Point	25°C (77°F)
Specific Gravity	0.865	Solubility	Low water solubility, excellent organic solvent
Molecular Formula	C ₈ H ₁₀	Molecular Weight	106.17 g/mol
Vapor Pressure (20°C)	6.7 mmHg	Viscosity (25°C)	0.89 cP
Refractive Index (20°C)	1.496	Density (25°C)	0.865 g/mL

APPLICATIONS

1. **Paints and Coatings** — Used as a high-performance solvent to optimize flow and leveling properties during the application of industrial coatings.
2. **Chemical Manufacturing** — Acts as a vital chemical precursor for the synthesis of complex plastics and synthetic fibers.
3. **Pharmaceuticals** — Utilized in the extraction processes of active pharmaceutical ingredients from botanical raw materials.
4. **Laboratory Analysis** — Employed as a reliable solvent in high-performance liquid chromatography to facilitate the separation of diverse chemical compounds.

STORAGE & HANDLING

Due to its low flash point of 25°C, Xylene must be stored in a cool, well-ventilated area away from heat sources or open flames to mitigate fire risks. Proper sealing is critical to prevent the accumulation of flammable vapors and to maintain the purity of the solvent by preventing moisture contamination.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Avoid contact with strong oxidizing agents and acids.
- Ensure proper PPE, including gloves and goggles, are worn during handling.
- Keep away from open flames and sources of ignition.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 55 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H226: Flammable liquid and vapour
- H304: May be fatal if swallowed and enters airways
- H312: Harmful in contact with skin
- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H373: May cause damage to organs through prolonged or repeated exposure

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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