

PRODUCT IDENTIFICATION



Product Name: Xylene
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, also known as xylol, is a high-purity technical grade aromatic solvent characterized by its clear, colorless appearance and precise distillation range. With an assay of 100.0% and extremely low moisture content at 13 ppm, this versatile liquid is essential for industrial formulations requiring consistent evaporation rates and chemical stability.

Grade Significance: Technical Grade indicates that this product is manufactured for industrial and commercial use where consistent chemical performance is required but pharmaceutical or food-grade purity standards are not necessary.

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 @ 25°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	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** — Functions as a high-performance solvent to improve flow, leveling, and finish quality in industrial coatings.
2. **Chemical Manufacturing** — Acts as a vital precursor in the synthesis of complex plastics and synthetic fibers.
3. **Pharmaceuticals** — Utilized in the specialized extraction of active pharmaceutical ingredients from complex plant materials.
4. **Laboratory Analysis** — Employed as a reliable solvent in high-performance liquid chromatography for the accurate separation of chemical compounds.

STORAGE & HANDLING

Due to its low flash point of 25°C, Xylene is highly flammable and must be stored in a cool, well-ventilated area away from heat sources and ignition points. Proper containment is critical to prevent the accumulation of vapors, which pose significant inhalation and health risks.

- 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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