

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Xylene ACS Grade

**Synonyms:** Xylol, Dimethylbenzene, xylene

**CAS Number:** 1330-20-7

**Grade/Purity:** ACS Grade

**Product Type:** Solvents

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574

**Information:** 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

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

## 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**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 |

**Precautionary Statements:**

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed.                                                                 |
| P240 | Ground and bond container and receiving equipment.                                             |
| P241 | Use explosion-proof electrical, ventilating, and lighting equipment.                           |
| P242 | Use non-sparking tools.                                                                        |
| P243 | Take precautionary measures against static discharge.                                          |
| P260 | Do not breathe dust, fume, gas, mist, vapours or spray.                                        |
| P261 | Avoid breathing dust, fume, gas, mist, vapours or spray.                                       |
| P264 | Wash hands and face thoroughly after handling.                                                 |
| P270 | Do not eat, drink or smoke when using this product.                                            |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P280 | Wear protective gloves, protective clothing, and eye/face protection.                          |

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER or doctor.                                                                        |
| P302+P352      | IF ON SKIN: Wash with plenty of water and soap.                                                                                  |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a POISON CENTER or doctor if you feel unwell.                                                                               |
| P314           | Get medical advice or attention if you feel unwell.                                                                              |
| P321           | Specific treatment (see first-aid information on this label).                                                                    |
| P331           | Do NOT induce vomiting.                                                                                                          |
| P332+P313      | If skin irritation occurs: Get medical advice or attention.                                                                      |
| P337+P313      | If eye irritation persists: Get medical advice or attention.                                                                     |
| P362           | Take off contaminated clothing and wash before reuse.                                                                            |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT              | % MIN | % MAX | CAS #     | EINECS# / ELINCS# | FORMULA                        | MOLECULAR WEIGHT |
|------------------------|-------|-------|-----------|-------------------|--------------------------------|------------------|
| Xylene (mixed isomers) | 80    | 100   | 1330-20-7 | 215-535-7         | C <sub>8</sub> H <sub>10</sub> | 106.17 g/mol     |
| Ethylbenzene           | 0     | 20    | 100-41-4  | 202-849-4         | C <sub>8</sub> H <sub>10</sub> | 106.17 g/mol     |
| Cumene                 | 0     | 0.5   | 98-82-8   | 202-704-5         | C <sub>9</sub> H <sub>12</sub> | 120.19 g/mol     |

### 4. FIRST-AID MEASURES

|                   |                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.                             |
| <b>Skin</b>       | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.                                |
| <b>Inhalation</b> | Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. |
| <b>Ingestion</b>  | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.                             |

### 5. FIRE-FIGHTING MEASURES

|                             |                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Media</b>       | Alcohol-resistant foam, CO <sub>2</sub> , dry chemical powder. Water spray may be used to cool fire-exposed containers. |
| <b>Unsuitable Media</b>     | Do not use a solid water stream — may scatter and spread fire.                                                          |
| <b>Protective Equipment</b> | Wear self-contained breathing apparatus and full protective clothing.                                                   |
| <b>Combustion Products</b>  | May include carbon oxides and other toxic fumes. See Section 10.                                                        |

### 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.       |
| <b>Environmental</b>             | Prevent leakage or spillage from entering drains, sewers, or waterways.                                 |
| <b>Containment &amp; Cleanup</b> | Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations. |

### 7. HANDLING AND STORAGE

|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe Handling</b> | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use. |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

|                     |                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe Storage</b> | Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. Ground and bond containers when transferring material. |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

**Occupational Exposure Limits:**

| AGENCY    | EXPOSURE LIMIT             |
|-----------|----------------------------|
| OSHA PEL  | 100 ppm TWA                |
| NIOSH REL | 100 ppm TWA / 150 ppm STEL |
| IDLH      | 900 ppm                    |

|                   |                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Wear chemical safety goggles or face shield.                                                                                                            |
| <b>Skin</b>       | Wear chemical-resistant gloves and protective clothing.                                                                                                 |
| <b>Inhalation</b> | Use a NIOSH-approved respirator with organic vapor cartridges. For confined spaces or exposures above the OEL, use supplied-air respiratory protection. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| <b>Appearance</b>                 | Clear, pale liquid with transparent visual profile |
| <b>Odor</b>                       | Characteristic                                     |
| <b>Median Particle Size</b>       | Not Applicable                                     |
| <b>Particle Size Distribution</b> | Not Applicable                                     |
| <b>Particle Shape</b>             | Not Applicable                                     |
| <b>Surface Area</b>               | Not Applicable                                     |
| <b>Dustiness</b>                  | Not Applicable                                     |
| <b>Hygroscopicity</b>             | Not Applicable                                     |
| <b>pH</b>                         | Not Available                                      |
| <b>Melting Point</b>              | -47°C (-52.6°F)                                    |
| <b>Boiling Point</b>              | 138°C (280.4°F)                                    |
| <b>Flash Point</b>                | 25°C (77°F)                                        |
| <b>Vapor Pressure</b>             | Not Available                                      |
| <b>Specific Gravity</b>           | 0.865                                              |
| <b>Solubility</b>                 | Low water solubility, excellent organic solvent    |
| <b>Molecular Formula</b>          | C <sub>8</sub> H <sub>10</sub>                     |
| <b>Molecular Weight</b>           | 106.16 g/mol                                       |

## 10. STABILITY AND REACTIVITY

|                               |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| <b>Chemical Stability</b>     | Stable under recommended storage conditions.                                  |
| <b>Hazardous Reactions</b>    | None under normal processing conditions.                                      |
| <b>Conditions to Avoid</b>    | Heat, sparks, open flame, and incompatible materials.                         |
| <b>Incompatible Materials</b> | Strong oxidizing agents, sources of ignition, heat.                           |
| <b>Decomposition Products</b> | May produce carbon oxides and other toxic fumes when heated to decomposition. |

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

|             |                           |
|-------------|---------------------------|
| <b>IARC</b> | Not listed as carcinogen. |
| <b>NTP</b>  | Not listed as carcinogen. |
| <b>OSHA</b> | Not listed as carcinogen. |

## 12. ECOLOGICAL INFORMATION

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>      | Algae ErC50: 4.7 mg/L (72 h, <i>Pseudokirchneriella subcapitata</i> — o-xylene as representative isomer (mixed-xylene CAS has no own record); 4.7 mg/L) |
| <b>Persistence</b>      | Low under aerobic conditions — Readily biodegradable (90–94% O <sub>2</sub> in 28 d) [o-xylene]                                                         |
| <b>Bioaccumulation</b>  | BCF 14 (measured in goldfish; low) [o-xylene]                                                                                                           |
| <b>Mobility in Soil</b> | Koc 24–251 — very high to moderate mobility [o-xylene]                                                                                                  |

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

## 14. TRANSPORT INFORMATION

|                         |                            |
|-------------------------|----------------------------|
| <b>US DOT</b>           | UN1307, XYLENES, 3, PG III |
| <b>IMDG</b>             | UN1307, XYLENES, 3, PG III |
| <b>IATA/ICAO</b>        | UN1307, XYLENES, 3, PG III |
| <b>Marine Pollutant</b> | No                         |

## 15. REGULATORY INFORMATION

|                                                                                                                       |                                           |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly. |                                           |
| <b>SARA 311/312</b>                                                                                                   | See Section 2 for hazard classifications. |

## 16. OTHER INFORMATION

**Revision Date:** 07/01/2026

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