



## Material Safety Data Sheet Xylenes, ACS

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Xylenes, ACS

**Catalog Numbers:**

LC26970

**Synonyms:**

Dimethylbenzene, xylol

**Company Identification:**

LabChem Inc

200 William Pitt Way

Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300 or

011-703-527-3887

### Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
1330-20-7	Xylenes (o-, m-, p- isomers)	81
100-41-4	Ethyl benzene	19

### Section 3 - Hazards Identification

#### Emergency Overview

**Appearance:** clear, colorless solution

**Warning!** Flammable liquid and vapor. May cause cancer based on animal data. Harmful if inhaled or absorbed through the skin. May cause irritation by all exposure routes.

**Target Organs:** Blood, kidneys, heart, nervous system, liver

#### Potential Health Effects

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:**

May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. Ingestion of large amounts may cause shallow, rapid respiration, fibrillation, convulsions, and unconsciousness.



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### **Inhalation:**

May cause respiratory tract irritation, fatigue, weakness, confusion, headache, nausea, and impaired coordination. Extreme inhalation may cause death by paralysis of the respiratory center.

### **Chronic:**

May cause cancer based on animal data. Reproductive effects have been reported in animals. May cause dermatitis and conjunctivitis. Repeated exposure may cause mucous membrane irritation, vomiting, insomnia, nosebleeds, chest pain, euphoria, headache, palpitations, memory loss, abnormal bleeding. Repeated inhalation may cause irreversible encephalopathy with cerebellar ataxia, unsteadiness, hallucinations, coma, blood disorders.

## Section 4 - First Aid Measures

### **Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

### **Skin:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid at once.

### **Ingestion:**

Do not induce vomiting. If vomiting occurs naturally, keep head below hips to prevent aspiration into lungs. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

### **Inhalation:**

Move victim to fresh air immediately. If breathing is difficult, administer oxygen. Give artificial respiration if necessary, using a mechanical device such as a bag and mask or one-way valve. Get medical aid at once.

### **Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

### **General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode in the heat of a fire. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Move container if possible. Cool containers with water well after fire is out. Stay away from storage tank ends.

### **Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Solid streams of water may spread fire.

### **Autoignition Temperature:**

460°C (860°F)

### **Flash Point:**

21°C (70°F)

### **NFPA Rating:**

Health- 2, Flammability- 2, Instability- 0

### **Explosion Limits:**

Lower: 1.0 Upper: 7.0



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### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal. Label reclaimed spill material as flammable. Remove all sources of ignition, and use spark-proof tools and equipment.

### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Do not ingest or inhale. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Take precautionary measures against static discharges. Keep away from heat, sparks, and flame. Empty containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:**

Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

**Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
Xylenes (o-, m-, p-isomers)	100 ppm TWA 150 ppm STEL	100 ppm TWA 435 mg/m <sup>3</sup> TWA	100 ppm TWA 435 mg/m <sup>3</sup> TWA
Ethyl benzene	100 ppm TWA 150 ppm STEL	100 ppm TWA 125 ppm STEL 800 ppm IDLH	100 ppm TWA 435 mg/m <sup>3</sup> TWA

**OSHA Vacated PELs:**

Xylenes (o-, m-, p- isomers): 100 ppm TWA; 150 ppm STEL  
Ethyl benzene: 100 ppm TWA; 125 ppm STEL

### Personal Protective Equipment

**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.



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### Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Aromatic odor
<b>pH:</b>	No information found.
<b>Vapor Pressure:</b>	8 mbar @20°C
<b>Vapor Density:</b>	3.7
<b>Evaporation Rate:</b>	0.6 (BuOAc=1)
<b>Viscosity:</b>	No information found.
<b>Boiling Point:</b>	137°C (279°F)
<b>Freezing/Melting Point:</b>	-34°C (-29°F)
<b>Decomposition Temperature:</b>	No information found.
<b>Solubility in water:</b>	No information found.
<b>Specific Gravity/Density:</b>	0.865
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>10</sub>
<b>Molecular Weight:</b>	106.17

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Incompatible materials, excess heat, sources of ignition.

### Incompatibilities with Other Materials:

Strong acids, strong oxidizing agents, organic chlorides.

### Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

### Hazardous Polymerization:

Has not been reported

## Section 11 - Toxicological Information

### RTECS:

CAS# 1330-20-7: ZE2100000

CAS# 100-41-4: DA0700000

### LD50/LC50:

CAS# 1330-20-7:

Inhalation, rat: LC50 = 5000 ppm/4H

Oral, rat: LD50 = 4300 mg/kg

Dermal, rabbit: LD50 = 1700 mg/kg

CAS# 100-41-4:

Inhalation, rat: LC50 = 17.2 mg/L/4H

Oral, rat: LD50 = 3500 mg/kg



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Dermal, rabbit: LD50 = 15354 mg/kg

**Carcinogenicity:**

CAS# 1330-20-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or California Proposition 65.

CAS# 100-41-4: Listed as a carcinogen by ACGIH, IARC, OSHA, and California Proposition 65.

**Epidemiology:**

May cause cancer based on animal studies.

**Teratogenicity:**

See actual entry in RTECS for complete information.

**Reproductive:**

See actual entry in RTECS for complete information.

**Mutagenicity:**

See actual entry in RTECS for complete information.

**Neurotoxicity:**

See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

No information found

### Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

### Section 14 - Transport Information

**US DOT**

**Shipping Name:** Xylenes

**Hazard Class:** 3

**UN Number:** UN1307

**Packing Group:** PG III

### Section 15 - Regulatory Information

**US Federal**

**TSCA:**

CAS# 1330-20-7 is listed on the TSCA Inventory.

CAS# 100-41-4 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ):**

CAS# 1330-20-7: final RQ = 100 lb. (45.4 kg)

CAS# 100-41-4: final RQ = 1000 lb. (454 kg)

**CERCLA/SARA Section 313:**

This material contains Xylenes (o-, m-, p- isomers) (CAS# 1330-20-7, 81%), and Ethyl benzene (CAS# 100-41-4, 19%), which are subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.



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### OSHA - Highly Hazardous:

None of the components are on this list.

### US State

#### State Right to Know:

Xylenes (o-, m-, p- isomers) and ethyl benzene can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

#### California Regulations:

WARNING: This product contains ethyl benzene, a chemical known to the state of California to cause cancer.

### European/International Regulations

#### Canadian DSL/NDSL:

CAS# 1330-20-7 is listed on Canada's DSL List.

CAS# 100-41-4 is listed on Canada's DSL List.

#### Canada Ingredient Disclosure List:

CAS# 1330-20-7 is not listed on Canada's Ingredient Disclosure List because each of the isomers is listed separately.

CAS# 100-41-4 is listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: February 17, 1999

Revision Date: September 20, 2011

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