

Air Quality Analysis

What are the health effects associated with high amounts of xylene inside on asthmatics?

By Ashley Wamsley, Jessie Leibenguth

What is xylene and its Ratios?

It's a colorless sweet smelling liquid that catches on fire easily, it occurs naturally in petroleum and coal tar and during forest fires.

1, 4 dimethylbenzene

Inside: 4827.087 ng/m³

Outside: 1447.56 ng/m³

Health Effects of xylene

- Loss of coordination
- Loss of consciousness
- Respiratory failure
- Fluid in the lungs
- Shortness of breath
- Impaired short term memory and reaction time
- Confusion
- Stomach discomfort
- Reversible liver and kidney damage

Symptoms/Triggers of Asthma

- Wheezing
- Coughing
- Shortness of breath
- Chest tightness
- Airway inflammation
- Bronchoconstriction
- Cold air
- Dust
- Strong fumes
- Exercise
- Inhaled irritants
- Smoke
- Allergens

What are sources of xylene?

- Occurs in a workplace
- Paint
- Paint thinners
- Varnish
- Contaminate
- Waste sites
- Automobile exhaust
- Cigarette Smoke

Conclusion

- Limit amounts of xylene producing agents in the household
- If exposed take proper precautions such as wearing a respiratory mask