Wood Smoke
Chemical Composition

Indicates a chemical present in both wood smoke and tobacco smoke
Indicates a hazardous chemical for which ATSDR has prepared a toxicological profile
Indicates a chemical classified as a carcinogen by the US government
Indicates a chemical that is one of the Top 20 CERCLA priority hazardous substances

### ALL CHEMICALS LISTED BELOW ARE REPORTED PRESENT IN WOOD SMOKE

- Carbon monoxide
- Methane
- Volatile organic compounds
- Formaldehyde
- Acrolein
- Propionaldehyde
- Butyraldehyde
- Acetaldehyde
- Furfural
- Substituted furans
- Benzene
- Alkyl benzenes
- Toluene
- Acetic acid
- Formic acid
- Nitrogen oxides
- Benzene
- Toluene
- Substituted aromatics
- Oxygenated monoaromatics
- Guaiacol
- Phenol
- Oxygenated polycyclic aromatic hydrocarbons
- Fluorene
- Phenanthrene
- Anthracene
- Methylanthracenes
- Fluoranthene
- Pyrene
- Benzo(a)anthracene
- Chrysene
- Benzo(b)fluoranthene
- Benzo(e)pyrene
- Indeno(1,2,3-cd) pyrene
- Benzo(ghi)perylene
- Coronene
- Dibenzo(a,h)anthracene
- Trace elements: Sodium, Magnesium, Aluminum, Silicon, Sulfur, Chlorine, Potassium, Calcium, Titanium, Vanadium, Chromium
- Manganese
- Nickel
- Copper
- Zinc
- Bromine
- Lead
- Isopimarily acid
- Dehydroabietic acid
- Isopimaric acid
- Lupenone
- Friedelin
- Chlorinated dioxins

### Sources:


For Our Children’s Health

With all this information, wouldn’t you hope that every child could:

Expect that the home, education, athletic and recreation facilities should be smoke-free, so that scholastic and athletic achievements are not limited by uncontrolled asthma and lost school days due to infections.

Be cared for by a supportive physician who explains to parents and teachers the dangers of wood smoke and tobacco smoke and their role in causing: asthma, immune system damage leading to auto-immune diseases, respiratory damage, increased risk of infection, aggravation of heart disease, and cancer.

Learn self-management skills to minimize exposure to smoke and to have confidence they will not be exposed to hazardous combustion toxins contained in tobacco and wood smoke whether at home, school or play.

Expect adults entrusted with their care to understand how to handle pollution emergencies and expect public guardians to protect them from smoke and other hazardous pollutants.

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