

Indoors: A personal health frontier

Volatiles emanating from everyday indoor items

Toluene (nausea, nervous system damage, dry skin)
furniture, bath mat, paint thinner, moisturizer

Benzene (headaches, irregular heartbeat)
paint, medicine bottles, printer ink, detergents

Xylene (liver damage, throat irritation)
pesticides, insecticides

Formaldehyde (nausea, cancer, eyes/skin irritation)
glues, wrinkle free fabric



Methylene Chloride (memory loss, headaches, nervous system damage)
paint strippers, varnish removers, adhesive removers

Acetone (dizziness, eye and respiratory tract irritation)
nail polish remover, pre soaks bottles, textile finishes, flea treatment

Ethylene glycol (depression, respiratory failure)
pen refills, oven cleaner, antifreeze, fungicides

PerChloroEthylene (mood changes, eye/throat irritation, drowsiness)
fabric finishers, insecticides

❖ “People spend 87% of their time indoors” : EPA study

❖ “Volatiles has measurable impact on cognitive abilities” : NIH study

❖ Ability to measure presence of VOCs and other harmful gases like CO₂, CO, NO_x, SO_x **individually** and **sub ppm levels** is necessary for meaningful interpretation

❖ Our sensors are capable of sensing all the VOCs along with CO₂, CO, NO_x, SO_x at sub ppm levels in indoor environments