

Chemical Name	Formula	GPR/PSR Sensors	XLT Sensors
Acetic Acid (trace vapors)	H ₃ COOH	Not Recommended	Recommended; requires coalescing filter, condenses at room temp
Acetone (vapor)	(CH ₃) ₂ CO	Recommended; requires coalescing filter, condenses at room temp	Recommended
Acetylene	HCCH	Recommended	Recommended
Acrylonitrile (vapors)	C ₃ H ₃ N	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Air	N ₂ +O ₂ +Ar	Recommended	Recommended
Ammonia	NH ₃	PPM sensors - H sensor > 1000 PPM NH ₃ , % sensors - recommended	Not Recommended
Argon	Ar	Recommended	Recommended
Arsine	AsH ₃	Not Recommended	Not Recommended
Butadiene (limits life)	C ₄ H ₆	Recommended; expect 3-4 month life	Not Recommended
Butane	C ₄ H ₁₀	Recommended	Recommended
Carbon Dioxide	CO ₂	Recommended < 5000 PPM CO ₂	Recommended
Carbon Disulfide	CS ₂	Recommended < 1000 PPM CS ₂	Recommended; prefer removal
Carbon Monoxide	CO	Recommended	Recommended
Mono-Chlorinated Hydrocarbons	C+H+Cl	Recommended	Recommended
Chlorine	Cl ₂	Not Recommended, interfering signal	Not Recommended
Chloro-fluorocarbons	H+F+Cl+C	Recommended	Recommended
Ethanol EtOH (vapors)	CH ₃ OH	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Ethyl Acetate	C ₄ H ₈ O ₂	Recommended	Recommended
Ethylene	C ₂ H ₄	Recommended	Recommended
Fluorine	F ₂	Not Recommended; interfering signal	Not Recommended; interfering signal
Formaldehyde (vapors)	CH ₂ O	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Helium	He	PPM sensors - H sensor > 1000 PPM He, % sensors - recommended	Not Recommended if He > 65%
Heptanes	C ₇ H ₁₆	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Hexanes (limits life)	C ₆ H ₁₄	Recommended; requires coalescing filter, condenses at room temp, limits life	Recommended; requires coalescing filter, condenses at room temp
Hydrocarbons	H+C	Recommended	Recommended
Hydrochloric Acid (trace vapors)	HCl	Not Recommended	Recommended; requires coalescing filter, condenses at room temp
Hydrogen	H ₂	PPM sensors - H sensor > 1000 H ₂ , % sensors - recommended	Not Recommended if H ₂ > 65%
Hydrogen Cyanide	HCN	Recommended	Recommended
Hydrogen Fluoride	HF	Not Recommended	Not Recommended
Hydrogen Sulfide	H ₂ S	Recommended; remove H ₂ S > 10 PPM	Recommended; remove H ₂ S > 10 PPM
Isopropyl Acetate	C ₅ H ₁₀ O ₂	Recommended	Recommended
Isopropyl Alcohol (IPA)	C ₃ H ₈ O	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Methane	CH ₄	Recommended	Recommended
Methanol MeOH (vapors)	CH ₄ O	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp

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Methyl Iodide (vapors)	CH ₃ I	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
MTBE (vapors)	C ₅ H ₁₂ O	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Nitric Oxide	NO	Low PPM NO concentrations only	Low PPM NO concentrations only
Nitrogen	N ₂	Recommended	Recommended
Nitrogen Dioxide	NO ₂	Low PPM NO ₂ concentration only, % oxygen measurent only	Low PPM NO ₂ concentration only, % oxygen measurent only
Nitrous Oxide	N ₂ O	Low PPM NO ₂ concentration only, % oxygen measurent only	Low PPM NO ₂ concentration only, % oxygen measurent only
NO _x	NO, NO ₂	Low PPM NO ₂ concentration only, % oxygen measurent only	Low PPM NO ₂ concentration only, % oxygen measurent only
Octofluorocyclobutane	C ₄ F ₈	Recommended	Recommended
Ozone	O ₃	Not Recommended; generates signal equivalent to 1.5 times oxygen	Not Recommended
Pentane (vapors)	C ₅ H ₁₂	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Phosgene	CCl ₂ O	Not Recommended	Not Recommended
Phosphene	PH ₃	Not Recommended	Not Recommended
Propane	C ₃ H ₈	Recommended	Recommended
Propelene Aldehyde (vapors)	C ₃ H ₄ O	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Propionic Acid (vapors)	C ₃ H ₆ O ₂	Not Recommended	Recommended; requires coalescing filter, condenses at room temp
Propylene	C ₃ H ₆	Recommended	Recommended
Silane	SiH ₄	Not Recommended	Not Recommended
Styrene	C ₈ H ₈	Recommended	Recommended
Sufuric Acid (vapors)	H ₂ SO ₄	Not Recommended	Recommended; remove H ₂ SO ₄ > 10 PPM
Sulfur Dioxide	SO ₂	Low PPM SO ₂ concentrations only	Low PPM SO ₂ concentrations only
Sulfur Hexafluride (limits life)	SF ₆	Recommended	Recommended
Tetrafluoromethane (vapors)	CF ₄	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Tetrahydrofurane (vapors)	C ₄ H ₈ O	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Toluene (vapors)	C ₇ H ₈	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Trimethylaluminum (vapors)	(CH ₃) ₃ Al	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Turpentine (vapors, limits life)	(C ₅ H ₈) _n	Low concentrations; requires coalescing filter, not recommended for high concentration	Low concentrations; requires coalescing filter, not recommended for high concentration
Vinyl Acetate (vapors)	C ₄ H ₆ O ₂	Recommended; requires coalescing filter, condenses at room temp	Recommended; requires coalescing filter, condenses at room temp
Vinyl Chloride (vapors)	C ₂ H ₃ Cl	Recommended	Recommended