



**Sparks Technology, Inc**

A Division of **UVDI**

**UVDI**

UltraViolet Devices, Inc.

**Contamination List**

# Contamination List

Chemical	Formula	Common Source	Chemical Type	Media
Acetaldehyde	CH <sub>3</sub> CHO	Plastics, Perfumes, Flavoring Agent	Aldehyde	C
Acetic Acid	CH <sub>3</sub> COOH	Food Production, Pharmaceutical	Organic acid	C, D
Acetic Anhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	Used in organic synthesis	Organic Acid	D
Acetone	CH <sub>3</sub> COCH <sub>3</sub>	Wet/Dry Etch, Cleaning	VOC, Organic Solvent	A
Acetonitrile, Methyl cyanide	CH <sub>3</sub> CN	Nail Salons, Fatty acid extract for fish & food	Amine-Tert	A
Acrolein	CH <sub>2</sub> =CHCHO	Plastics, Perfumes, Cigarette Smoke	Aldehyde	C
Acryaldehyde	CH <sub>2</sub> =CHCHO	Plastics, Perfumes, Cigarette Smoke	Aldehyde	C
Acrylic Acid	CH <sub>2</sub> =CHCH <sub>2</sub> H	Manufacture of plastics	Organic acid	D
Acrylonitrile	CH <sub>2</sub> =CHCN	Adhesives, Fumigant	Amine	E
Adhesives, General	Multiple	Manufacturing	Volatile Organic	A
Alcoholic Beverages	Ethyl Alcohol	Bottling Plants, Breweries	Alcohol	B
Allyl Chloride	CH <sub>2</sub> =CHCH <sub>2</sub> Cl	Synthesis	Chlorinated Hydrocarbon	B
Allyl Sulfide	(CH <sub>2</sub> =CHCH <sub>2</sub> ) <sub>2</sub> S	Flavor Manufacturing	Sulfur Bearing VOC	B
Amines	Containing NH	Fungicide	Amine	B
Ammonia	NH <sub>3</sub>	Fertilizers, Refrigerant, Water Semi Fab	Amine	E
Amyl Acetate-N	CH <sub>3</sub> COOH(CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	Nail Polish Solvent, Perfumes	Acetate	E
Amyl Alcohol-N	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> OH	Organic Synthesis as solvent	Alcohol	B
Amyl Ether	[CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>2</sub> ] <sub>2</sub> O	Industrial Solvent	Organic Solvent, VOC	B
Anesthetics	Multiple	Medical Facilities	Organic	A
Aniline	C <sub>6</sub> H <sub>7</sub> N	Fungicide	Aromatic Hydrocarbon, Amine	A
Animal Odors	Skatole, Indole, Urine	Veterinary Clinics, Feed Lots	Sulfur Bearing , Ammonia	D
Antimony Hydride	SbH <sub>3</sub>	Water Semi Fab	Hydride	B
Antimony Pentachloride	SbCl <sub>3</sub>	Water Semi Fab	Halide	B
Aniseptics	Many Alcohols	Hospitals, Clinics	Alcohol	B
Arsine	AsH <sub>3</sub>	Water Semi Fab	Hydride	B
Arsenic Trifluoride	AsF <sub>3</sub>	Water Semi Fab	Halide	B
Arsenic Trichloride	AsCl <sub>3</sub>	Water Semi Fab	Halide	B
Asphalt Fumes	Multiple	Asphalt Production, Roofing	VOC, Sulfur Compounds	D
Automobile Exhaust	Aldehydes, Sulfur	Air Pollution	VOC, Aldehydes, Sulfur	B
Bathroom Smells	Sulfur Bearing, Ammonia	Locker Rooms	Organic, Ammonia	E
Benzene	C <sub>6</sub> H <sub>6</sub>	Gasoline	Organic Solvent - VOC	A
Benzenetrifluoromethane	C <sub>7</sub> H <sub>8</sub> F <sub>3</sub>	Coolant	Aromatic Fluorocarbon	A
Benzoyl peroxide	(C <sub>6</sub> H <sub>5</sub> CO) <sub>2</sub> O <sub>2</sub>	Bleaching Agent, Catalyst		A
Body Odors	Sulfur Bearing Compounds	Anaerobic Bacteria		A
Borane	BxHx	Water Semi Fab		B
Boron Tribromide	BBr <sub>3</sub>	Water Semi Fab	Acid	D
Boron Trichloride	BCl <sub>3</sub>	Water Semi Fab	Acid	D
Boron Trifluoride	BF <sub>3</sub>	Water Semi Fab	Acid	D
Bormine	BrxOxH	Used in Fire Retardants		E
Burned Flesh	Aldehydes, Acids	Laser Surgery, Smoke Houses		D
Burning Food	Aldehydes, Acids	Restaurants		D
Burning Fat	Aldehydes, Acids	Restaurants		D
Butadiene (1,3)	CH <sub>2</sub> =CHCH=CH <sub>2</sub>	Mfg. Synthetic Plastics, Rubbers	Hydrocarbon	A
Butane	C <sub>4</sub> H <sub>10</sub>	Producer Gas	Hydrocarbon	A
Butanone (Methyl Ethyl Ketone, MEK)	CH <sub>3</sub> COCH <sub>2</sub> CH <sub>3</sub>	Solvent	VOC	A
Butyl Acetate; N, Sec, Tert	C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	Water Semi Fab, Photographic Films	Organic Solvent	A
Butyl Alcohol	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> OH	Coatings, Detergent Mfg., Rayon	Organic Solvent, Alcohol	A
Butyl Cellosolve	C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	Solvent, Dry Cleaning	Organic Solvent	A
Butyl Chloride	C <sub>4</sub> H <sub>9</sub> Cl	For Organic Synthesis	Chlorinated Hydrocarbon	D
Butylene	C <sub>4</sub> H <sub>8</sub>	Producer Gas	Hydrocarbon	A
Butyl Ether	C <sub>4</sub> H <sub>18</sub> O	Component of Methyl-tert-butyl, Gas additive	Alcohol	A
Butyl Mercaptan	C <sub>4</sub> H <sub>10</sub> S	Odorant	Sulfur Bearing Hydrocarbon	A
Butyl Methacrylate	CH <sub>2</sub> (CH <sub>3</sub> )COOCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub> CH <sub>3</sub>	Nail Salons	Organic acid	D
Butyric Acid	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> COOH	Artificial Flavorings, Varnishes	Organic acid	D
Cadaverine	NH <sub>2</sub> (CH <sub>2</sub> ) <sub>5</sub> NH <sub>2</sub>	Decomposition Product	Amine	E

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Camphor	C10H16O	Plastics, Embalming Fluid, Pharmaceutical		C
Caprahol	C9H18OH	Food Stuffs	Alcohol	C
Caproic Acid	CH3(CH2)4COOH	Artificial Flavoring	Organic acid	D
Caprylic Acid	CH3(CH2)6COOH	Artificial Flavoring, Perfumes	Organic acid	D
Carbolic Acid (Phenol)	C6H6O	General Disinfectant, Preservative	Organic acid	D
Carbon Disulfide	CS2			A
Carbon Tetrachloride	CCl4		Chlorinated Hydrocarbon	A
Carbon Tetrafluoride (Freon 14)	CF4	Refrigerant	Fluorocarbon	A
Cellosolve	See Butyl Cellosolve			A
Celloslove Acetate	C6H12O3	Automotive laquer Inhibiter		A
Charred Materials	Aldehydes, Sulfur, VOC			B
Cholordane	C10H12O3	Insecticide	Chlorinated Aromatic	B
Chlorine	Cl2	Disinfectant, Swimming Pools	Oxidizer	D
Chlorine Dioxide	ClO2	Disinfectant		B
Chlorine Trifluoride	ClF3		Halogen	A
Chlorobenzene	C6H5Cl	Solvent, Heat Transfer Fluid	Chlorinated Hydrocarbon	A
Chlorobutadiene, Chloroprene	CH2=CClCH=CH2	Monomer Synthetic Rubber	Halide	B
Chloroform (Trichloromethane)	CHCl3		Chlorinated Hydrocarbon	B
Chloronitropropane	CH3CH2CHClNO2	Fungicide		D
Chlorophenol	C6H5ClO			A
Chloropicrin	CCl3NO2	Disinfectant, Fumigant, War Gas		A
Cigarette Smoke	VOC, Aldehydes			B
Citrus & Other Fruits	Multiple Organic Acids	Juice Production, Flavorings		D
Cleaning Compounds, General	Ammonia, Bleach			C
Combustion Odors	Unburned VOC, Sulfur	Vehicle Exhaust, Boilers		B
Cooking Odors	Fats, Oils, Aldehydes	Restaurant Hood Exhausts		A
Cresol	C7H8O	Disinfectant, Fumigant, Explosives		A
Cresosote (Coal Tar)	Multiple Hydrocarbons	Wood Preservative, Insecticide	Aromatic Hydrocarbon	A
Crotonaldehyde	CH3CH=CHCHO	Odorant, Insecticides, War Gas		A
Cyclohexane	C6H12	Paint Removers, Solid Fuel	Petroleum Distillate	A
Cyclohexanol	C6H12O	Celluloid, Insecticides, Textile	Alcohol	B
Cylohexanone	C6H10O	Crude Rubber, Waxes, Fats, Shellac		B
Cyclohexane	C6H10		Aromatic Hydrocarbon	A
Dead Animals	See Putrescine, H2S		Amine, Sulfur Bearing	E
Decane	C10H12O3	Component of Natural Gas	Alkane	A
Decaying Substances				B
Deodorants				B
Dexhyzalone	C18H28N2O4H	CNS Stimulant	Pharmaceutical	B
Dibromomethane, Methylene Bromide	CH2Br2		Halide	D
Dichlorobenzene	C6H4Cl2	Insecticide	Chlorinated Hydrocarbon	D
Dichloromethane Methylene Chloride	CH2Cl2	Solvent Paint Removers, Food Processing		A
Dichloroethylene	CH2=CCl2			B
Dichloroethyl Ether	[ClCH2CH2]2O2	Soil Fumigant, Solvent		A
Dichloromonofluoromethane				A
Dichloropropane, Propylene Dichloride	CH3CHClCH2Cl	Oil, Fat Solvent, Degreaser, Dry Cleaning		B
Dichlorosialne	SiH2Cl2	Water Semi Fab	Acid	A
Diesel Fumes	Sulfur, Aldehydes, VOC			D
Diethylamine	(C2H5)2NH	Flotation, Pharmaceuticals, Dyes	Amine	E
Diethyl Ketone, 3-Pentanone	CH3CH2COCH2CH3			A
Dimethylaniline	C10H15N	Dyestuff	Amine	E
Dimethylsulfate	C2H6O4S	Methylating Agent, War Gas	Corrosive	B
Diocyl Phthalate	C24H38O4	Vinyl Products, PCB Replacement		A
Dioxane	C4H9O2	In Chlorinated Solvents		A
Disilane	Si2H6	Water Semi Fab	Hydride	A
Dipropyl Ketone	CH3CH2CH2COOCH2CH2CH3			A
Disinfectants, General				B
Embalming Odors	See Formaldehyde			C



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Chemical	Formula	Common Source	Chemical Type	Media
Ethane	CH <sub>3</sub> CH <sub>3</sub>	Refrigerant, Bottled Gas	Hydrocarbon	A
Ethanol, Ethyl Alcohol	CH <sub>2</sub> CH <sub>2</sub> OH	Alcohol Beverages, Octane Booster	Alcohol	B
Ether, Ethyl Ether	C <sub>2</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub>	Solvent, Gun Powder, Starting Fluid		A
Ethyl Acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	Flavorings, Perfumes, Film, Nail Salons		A
Ethyl Acrylate	CH <sub>2</sub> =CHCOOCH <sub>2</sub> CH <sub>3</sub>	Water Bases Paints		B
Ethel Alcohol	See Ethanol			A
Ethylamine	C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub>	Rubber/Latex, Oil Refining	Amine	E
Ethylbenzene	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	Styrene Monomer		A
Ethyl Bromide, Bromoethane	CH <sub>3</sub> CH <sub>2</sub> Br	Refrigerent	Halide	D
Ethyl Chloride, Chloroethane	C <sub>2</sub> H <sub>5</sub> Cl	Solvent, Refrigerent	Chlorinated Hydrocarbon	A
Ethyl cyanoacrylate	C <sub>6</sub> H <sub>7</sub> NO <sub>2</sub>	Nail Salons, Superglue		A
Ethyl Ether	C <sub>2</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub>	Solvent, Starting Fluid, Nail Salons		A
Ethyl Formate	HCOOC <sub>2</sub> H <sub>5</sub>	Lemonade Flavoring, Food Fungicide	Ester	B
Ethyl Mercaptans				B
Ethyl Methacrylate	H <sub>2</sub> C=C(CH <sub>3</sub> )CO <sub>2</sub> C <sub>2</sub> H <sub>5</sub>	Adhesives, Nail Salons	Monomer	B
Ethyl Silicate	Si(OC <sub>2</sub> H <sub>5</sub> ) <sub>4</sub>	Waterproofing, Stone Hardening		B
Ethylene	CH <sub>2</sub> =CH <sub>2</sub>	Fruit Ripening Accelerator		C
Ethylene Chlorohydrin	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	Insecticide Manufacturing		A
Ethylene Dichloride, Dichloroethane	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	Solvent, Fumigant		D
Ethylene Oxide	C <sub>2</sub> H <sub>4</sub> O	Explosive, Bomb Detection		C
Eucalyptol	C <sub>10</sub> H <sub>18</sub> O	Pharmaceutical Flavoring		A
Exhaust Fumes, Automotive	CO <sub>2</sub> , SO <sub>2</sub> , H <sub>2</sub> S, Aldehydes			D
Film Processing Odors				B
Fish Odors	Sulfur + Nitrogen Compounds			E
Flesinacin	C <sub>17</sub> H <sub>18</sub> F <sub>2</sub> N <sub>4</sub> O <sub>3</sub>	Antibacterial		A
Fluorine	F <sub>2</sub>	Water Semi Fab	Oxidizer	D
Fluorotrchloromethane	CCl <sub>3</sub> F	Refrigerent, Propellant		A
Food Aromas				A
Formaldehyde	HCHO	Combustion product, Smog, Preservative		C
Formic Acid	HCOOH	Silage additive, Leather Tanning	Organic acid	D
Garlic Odor - Allicin	C <sub>6</sub> H <sub>10</sub> OS <sub>2</sub>	Seasoning	Chemox / Carbon	B
Gasoline	VOC, BETX			A
Germane	GeH <sub>4</sub>	Water Semi Fab	Hydride	A
Germanium Tetrachloride	GeCl <sub>4</sub>	Water Semi Fab	Halide	A
Germanium Tetrafluoride	GeF <sub>4</sub>	Water Semi Fab	Halide	A
Helium	He		Inert Gas	A
Heptane	C <sub>7</sub> H <sub>16</sub>		Hydrocarbon	A
Heptalene	C <sub>12</sub> H <sub>10</sub>		Hydrocarbon	A
Hexane	C <sub>6</sub> H <sub>14</sub>			A
Hexamethyl Disilane (HMDS)	C <sub>6</sub> H <sub>18</sub> Si <sub>2</sub>	Water Semi Fab	Organic Solvent	A
Hexylene, Hexene	C <sub>6</sub> H <sub>12</sub>			A
1-Hexyn-1-Amine	C <sub>6</sub> H <sub>11</sub> N			A
Hospital Odors & Smells	Various, Disinfectants, Body		Occupied Space Door	B
Hydrazine	H <sub>2</sub> NNH <sub>2</sub>	Agricultural Chemicals, Rocket Fuel	Amine	E
Hydrogen Bromide	HBr	Water Semi Fab	Mineral Acid	D
hydrogen Chloride-Hydrochloric Acid	HCl	Water Semi Fab	Mineral Acid	D
Hydrogen Fluoride	HF	Water Semi Fab	Mineral Acid	D
Hydrogen Iodine	HI		Mineral Acid	D
Hydrogen Selenide	H <sub>2</sub> Se	Water Semi Fab	Mineral Acid	D
Hydrogen Sulfide	H <sub>2</sub> S	Water Semi Fab	Acid as H <sub>2</sub> SO <sub>4</sub>	D
Hydrogen Telluride	H <sub>2</sub> Te	Water semi Fab	Acid	D
Hydroquinone, Melamine	C <sub>3</sub> H <sub>6</sub> N <sub>6</sub>	Nail Salons	Amine	E
Incense	Perfumes			B

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Chemical	Formula	Common Source	Chemical Type	Media
Indole	C <sub>8</sub> H <sub>7</sub> N	Fecal, Perfumery		B
Iodine	I <sub>2</sub>			A
Iodoform	CHI <sub>3</sub>	Antiseptic	Halogenated Alkane	A
Isophorone	C <sub>9</sub> H <sub>14</sub> O	Solvent in Printing ink, Adhesives	Alcohol	A
Isoprene	C <sub>5</sub> H <sub>8</sub>	Mfg. "synthetic" natural rubber		A
Isopropyl Acetate	CH <sub>3</sub> COOHCH(CH <sub>3</sub> ) <sub>2</sub>	Solvent in Plastics, Oils, Fats, Perfumery		A
Isopropyl Alcohol (isopropanol) (IPA)	C <sub>3</sub> H <sub>8</sub> O		Organic Solvent, Alcohol	A
Isopropyl Ether	(CH <sub>3</sub> ) <sub>2</sub> CHOCH(CH <sub>3</sub> ) <sub>2</sub>	Solvent, Fuel Additive		A
Kerosene	Petroleum Hydrocarbons			A
Kitchen Odors	Greases, H <sub>2</sub> S	Drains, Grease pits, Food Preparation		B
Liquid Fuels	Petroleum Hydrocarbons			A
Lubricating Oils & Greases	Petroleum Hydrocarbons, S			A
Lycopodium	Moss Spores	Pill Covering	Organic	A
Medicinal Odors				B
Methacrylic Acid	CH <sub>2</sub> CCH <sub>3</sub> COOH	Nail Salons, Plexiglas Mfg.	Monomer	D
Menthol	C <sub>10</sub> H <sub>20</sub> O	Confectionary, Perfumery, Cigarettes	Alcohol	B
Mercaptans (Methyl, Ethyl, Propyl)	See Specific Type			D
Methane	CH <sub>4</sub>	Landfill gas, Mfg. of NH <sub>3</sub> , Formaldehyde	Hydrocarbon	B
Methanol (Methyl Alcohol)	CH <sub>3</sub> OH	Solvent, Gas Additive, Pharmaceuticals	Alcohol	A
Methyl Acetate	CH <sub>3</sub> COOCH <sub>3</sub>	Solvent, Mfg. Synthetic Leather		B
Methyl Acrylate	CH <sub>2</sub> =CHOOCH <sub>3</sub>	Plastic Films, Resins, Paper Coatings	Organic Acid, Polymer	B
Methylamine	CH <sub>3</sub> NH <sub>2</sub>	Leather Tanning, Organic Synthesis	Amine	E
Methyl Bromide	CH <sub>3</sub> Br	Biomass Burning, Oils Extraction	Halide	D
Methyl Butyl Ketone, 2-Heptanone	CH <sub>3</sub> COC <sub>4</sub> H <sub>9</sub>		Ketone	A
Methyl Cellosolve	HOCH <sub>2</sub> CH <sub>2</sub> OH	Solvent, Nail Polish, Varnishes & Paints	Alcohol	B
Methyl Cellosolve Acetate	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OOCCH <sub>3</sub>	Industrial Solvent	Alcohol	B
Methyl Chloride, Chloromethane	CH <sub>3</sub> Cl	Refrigerant	Halide	D
Methylchloroform, 1, 1, 1-Trichloroethane	CH <sub>3</sub> CCl <sub>3</sub>	Cold Metal Cleaners, Plastic Mold Cleaner	Halide	D
Methylene Chloride, Dichloromethane	CH <sub>2</sub> Cl <sub>2</sub>	Paint Remover, Pharmaceuticals, Food	Halide	D
Methyl Disulfide	See Dimethyl Disulfide			D
Methyl Ethyl Ether	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>3</sub>		Ether	A
Methyl Ethyl Ketone, MEK, 2-Butanone	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>3</sub>	Solvent, Mfg. Smokeless Powder	Ketone	B
Methyl Formate	HCOOCH <sub>3</sub>	Fumigant, Larvicide for Tobacco & Food Stuff	Organic Acid	A
Methyl Ethyl Ketone, Isopropyl Acetone	CH <sub>3</sub> COCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	Solvent	Ketone	A
Methyl Isopropyl Ketone (MIPK)	(CH <sub>3</sub> ) <sub>2</sub> CHCOCH <sub>3</sub>	Solvent	Ketone	A
Methyl Mercaptan, Methanethiol	CH <sub>3</sub> SH	Jet Fuel Additives, Fungicides, Sour Gas		D
Methylcyclohexane	C <sub>7</sub> H <sub>14</sub>		Hydrocarbon	A
Methylcyclohexanol	CH <sub>3</sub> C <sub>6</sub> H <sub>11</sub> OH		Alcohol	A
Methyl Sulfide	(CH <sub>3</sub> ) <sub>2</sub> S	Solvent For Mineral Salts		D
Methyltrichlorosilane	CH <sub>3</sub> SiCl <sub>3</sub>	Water Semi Fab	Acid	D
Methyl Vinyl Ketone	CH <sub>3</sub> COCH=CH <sub>2</sub>	Plastics Manufacturing, Synthesis Vitamin A	Ketone	B
Mildew, Mold Odors				B
Moth Balls	See Napthalene		Aromatic Hydrocarbon	B
Naphtha, Petroleum Naphtha	Low Boiling Hydrocarbon Mix	Pharmaceutical Solvent, Industrial Solvent		B
Napthalene	C <sub>10</sub> H <sub>8</sub>	Moth Repellant, Insecticide	Aromatic Hydrocarbon	B
Nicotene	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub>	Cigarette Smoke, Insecticide	Amine	B
Nicotinic Acid	C <sub>5</sub> NH <sub>4</sub> COOH	Pharmaceutical	Organic Acid	D
Nitric Acid	HNO <sub>3</sub>	Fertilizer, Mfg. many Organic Nitrates	Mineral Acid	D
Nitric Oxide	NO	Bleaching Agent for Rayon, Air Pollution as Nox		A
Nitrobenzene	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	Soaps, Shoe Polishes		B

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Chemical	Formula	Common Source	Chemical Type	Media
Nitroethane	CH <sub>3</sub> CH <sub>2</sub> NO <sub>2</sub>	Solvent, Propellant		B
Nitrogen	N <sub>2</sub>		Inert Gas	A
Nitrogen Dioxide	NO <sub>2</sub>	Air Pollution, Nitration Component		B
Nitrogen Oxides	Nox	Air Pollution, Coal Fired Power Plants		B
Nitrogen Trifluoride	NF <sub>3</sub>	Water Semi Fab	Oxidizer	A
Nitromethane	CH <sub>3</sub> NO <sub>2</sub>	Explosives, Used in Coating Industry		A
Nitropropane, 1	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> NO <sub>2</sub>	Solvent, Propellant		B
Nitrous Oxide	N <sub>2</sub> O	Whipped Cream, Analgesic	Oxidizer	A
Nonane	C <sub>9</sub> H <sub>20</sub>	Component of Fuel	Alkane, Hydrocarbon	A
Octalene, Aldrin	C <sub>12</sub> H <sub>8</sub> Cl <sub>6</sub>	Pesticide	Halide	A
Octane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> CH <sub>3</sub>	Petroleum	Alkane	A
Oxygen	O <sub>2</sub>		Oxidizer	A
Onion (Oil)	Bisulfide, Sulfoxide, Sulfenic	Crushed Onion Seeds		B
Organic Chemicals				A
Ozone	O <sub>3</sub>	Copiers, Air Pollution	Oxidizer	A
Packing House Odors				B
Paint Odors	Various Solvents, Binders			A
Palmitric Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>14</sub> COOH	Oils & Fats, Palm Oil, Chinese Vegetable Tallow	Organic Acid	D
Paste & Glues				A
Pentane	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH=CH <sub>3</sub>	Natural Gas	Alkane, Hydrocarbon	A
Pentanone -2, Methyl Propyl Ketone	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> COCH <sub>3</sub>	Solvent	Ketone	B
Pentanone -3, Diethyl Ketone	CH <sub>3</sub> CH <sub>2</sub> COCH <sub>2</sub> CH <sub>3</sub>		Ketone	B
Pentalene				B
Perchloroethylene, Tetrachloroethylene	C <sub>2</sub> Cl <sub>4</sub>	Dry Cleaning Solvent, Electrical Transformers	Chlorinated Hydrocarbon	B
Perfumes				B
Perspiration				B
Pet Odors	Urine			E
Phenol, Carboic Acid	C <sub>6</sub> H <sub>6</sub> O	Antiseptic, Dyes	Caustic in Nature, Organic Acid	D
Phosgene	Cl <sub>2</sub> C=O	War Gas, Preparation of many Chemicals		B
Phosphine	PH <sub>3</sub>	Water Semi Fab	Hydride	B
Phosphorous Oxychloride (POCL)	POCl <sub>3</sub>	Water Semi Fab	Acid	D
Phosphorous Pentachloride	PCl <sub>5</sub>	Water Semi Fab	Acid	D
Phosphorous Pentafluoride	PF <sub>5</sub>	Water Semi Fab	Acid	D
Phosphorous Trichloride	PCl <sub>3</sub>	Water Semi Fab	Acid	D
Phosphorous Trifluoride	PF <sub>3</sub>	Water Semi Fab	Acid	D
Pitch				B
Plastics	See Styrene			B
Popcorn				B
Poultry Odors				B
Propane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	Fuel Gas, Refrigerant	Alkane, Hydrocarbon	A
Propanol-2 (Isopropyl Alcohol)	CH <sub>3</sub> CHOHCH <sub>3</sub>	Antiseptic, Solvent, Pharmaceutical Solvent	Alcohol	A
Propionaldehyde, Propanal	CH <sub>3</sub> CH <sub>2</sub> CHO		Aldehyde	B
Propionic Acid	CH <sub>3</sub> CH <sub>2</sub> COOH	Mold Inhibitors, Base for Flavoring, Perfumes	Organic Acid	D
Propyl Acetate	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	Mfg. Flavorings, Perfumes, Solvent	Organic Acid	D
Propyl Chloride	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> Cl		Halide	A
Propylene	H <sub>2</sub> C=CHCH <sub>3</sub>	Plastics, Carpet Fibers	Hydrocarbon	A
Propyl Ether	C <sub>3</sub> H <sub>7</sub> OC <sub>3</sub> H <sub>7</sub>		Alkene	B
Propyl Mercaptan	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> SH	Artificial Odorant	Mercaptan	D
Propyne	H <sub>3</sub> CC=CH		Alkynes	B
Putrescine	NH <sub>2</sub> (CH <sub>2</sub> ) <sub>4</sub> NH <sub>2</sub>	Decaying Flesh	Amine	E
Pyridine	C <sub>5</sub> H <sub>5</sub> N			E
Rancid Oils				D

# Contamination List

Chemical	Formula	Common Source	Chemical Type	Media
Resins				B
Ripening Fruits	See Ethylene			C
Sewer Odors	H <sub>2</sub> S			D
Silane	SiH <sub>4</sub>	Water Semi Fab	Hydride	A
Silicon Tetrachloride	SiCl <sub>4</sub>	Water Semi Fab	Acid	D
Silicon Tetrafluoride	SiF <sub>4</sub>	Water Semi Fab	Acid	D
Skatole	C <sub>9</sub> H <sub>9</sub> N	Feces, Coal Tar		B
Slaughterhouse Odors				B
Smog	O <sub>3</sub> , NO <sub>x</sub> , SO <sub>x</sub> , Hydrocarbons			B
Soap Smells	Perfumes			B
Smoke	Aldehydes, Sulfur			B
Solvents				A
Sour Milk				B
Spoiled Foodstuffs	H <sub>2</sub> S, Aldehydes, Organics	Anaerobic Bacteria		B
Stale Odors				A
Stibine, Antimony hydride	SbH <sub>3</sub>	Fumigating Agent, Pharmaceutical		A
Stoddard Solvent, Mineral Spirits	Various Hydrocarbons	Solvent for Paints & Similar	Petroleum Hydrocarbon	A
Stuffiness	Body Odors, Mold			B
Styrene	C <sub>6</sub> H <sub>5</sub> CH=CH <sub>2</sub>	Mfg. Plastics, Resins, Synthetic Rubber		A
Sulfur Dioxide (SO <sub>2</sub> )	SO <sub>2</sub>	Vehicle Exhaust, Coal Fired Power Plants		D
Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>		Mineral Acid	D
Sulfur Hexafluoride	SF <sub>6</sub>	Electrical Circuit Interrupter, Circuit Board Mfg.	Halide	B
Sulfur Trioxide	SO <sub>3</sub>	Explosive Manufacturing		A
Tar, Roofing Materials	VOC, Sulfur			D
Tertiarybutyl Arsilne (TBA)	(CH <sub>3</sub> )AsH <sub>2</sub>	Water Semi Fab	Organic Arsenate	A
Tertiarybutyl Phosphine (TBP)	(CH <sub>3</sub> )PH <sub>2</sub>	Water Semi Fab	Organic Phosphate	A
Tetrachloroethane	Cl <sub>2</sub> CHCHCl <sub>2</sub>	Nonflammable Solvent	Chlorinated Hydrocarbon	A
Tetrachloroethylene (PERC)	C <sub>2</sub> Cl <sub>4</sub>	Water Semi Fab	Chlorinated Hydrocarbon	A
Tetrachlorodifluoroethane (Freon 112)	C <sub>2</sub> Cl <sub>4</sub> F <sub>2</sub>	Water Semi Fab	Chlorofluorocarbon	A
Tetraethyl Orthosilicate (TEOS)	Si <sub>9</sub> O <sub>2</sub> (H <sub>5</sub> ) <sub>4</sub>	Water Semi Fab	Organic Silicate	A
Tobacco Smoke, ETS	Aldehydes, Sulfur, VOC			B
Toilet Odors				B
Toluene	C <sub>7</sub> H <sub>8</sub>	Solvent, Paints, Gasoline	Organic Solvent	A
Toluene 2,4-Diisocyanate	C <sub>9</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	Mfg. Polyurethane Foams		B
Toluidine	C <sub>7</sub> H <sub>9</sub> N	Printing Dye - Blue Black	Amine	E
Trichloroethylene	CCl=CHCl	Solvent for Waxes, Fats	Halide	A
Trichloroethane-2, 2, 2	CH <sub>2</sub> ClCHCl <sub>2</sub>	Solvent for Waxes, Fats	Halide	A
Trichlorofluoromethane	CClF <sub>3</sub>	Water Semi Fab	Chlorofluorocarbon	A
Trichlorotrifluoroethane	C <sub>2</sub> Cl <sub>3</sub> F <sub>3</sub>	Water Semi Fab	Chlorofluorocarbon	B
Triethoxyarsine (TEAO)	As(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub>	Water Semi Fab	Organic Arsenate	B
Triethoxyborane	B(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub>	Water Semi Fab	Organic Borate	B
Triethylamine	(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> N	Fungicides, Corrosion Inhibitor, Cleaning Compounds	Amine	E
Trifluoroethane, Freon 23	CFH <sub>3</sub>	Refrigerant, Nail Salons, Fire Extinguishers		A
Trimethylamine	(CH <sub>3</sub> ) <sub>3</sub> N	NG Odorant, Insect Attractant, Plant & Fish Decay	Amine	E
Triethylxyborane (TMB)	B(OC <sub>2</sub> H <sub>3</sub> ) <sub>3</sub>	Water Semi Fab	Organic Borate	B
Trimethyl Orthophosphate	PO(OCH <sub>3</sub> ) <sub>3</sub>	Water Semi Fab	Organic Phosphate	B
Trichloro-1, 1, 1-ethane (TMA)	CH <sub>3</sub> CCl <sub>3</sub>	Water Semi Fab	Halide	A
Trichlorosilane	SiHCl <sub>3</sub>	Water Semi Fab	Acid	D
Trichloroethylene	C <sub>2</sub> Cl <sub>3</sub> H	Water Semi Fab	Halide	A
Tungsten Hexafluoride	WF <sub>6</sub>	Water Semi Fab	Acid	D
Turpentine	Pine	Polishes, Insecticide, Antiseptic		A
Urea	H <sub>2</sub> NCONH <sub>2</sub>	Fertilizer, Animal Feeds, Mfg. Resins	Amine	E
Uric Acid	C <sub>5</sub> H <sub>4</sub> N <sub>4</sub> O <sub>3</sub>	Urine	Organic Acid	D
Valeric Acid	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> COOH	Perfume Mfg.	Organic Acid	D

# Contamination List

Chemical	Formula	Common Source	Chemical Type	Media
Valeric Aldehyde, Pentanal	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CHO	Flavoring	Aldehyde	B
Varnish Fumes	VOC, Acetates			A
Vinegar, Acetic Acid	HC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	Mfg. Synthetic Textile Fibers: Vinyl Acetate	Organic Acid	D
Vinyl Chloride	CH <sub>2</sub> =CHCl	Plastics, Refrigerant	Polymer	B
Waste Bin Odors	H <sub>2</sub> S, Hydrocarbons			B
Xylene	C <sub>8</sub> H <sub>10</sub>	Solvent, Water Semi Fab	Alkene	A

## Additional Notes:



