Heerweg 15 D 73770 Denkendorf
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UMSITEC
Umwelt- und Sicherheitstechnik

Gas List

Relative sensitivity: relative sensitivity of an adjustment of the sensor with isobutylene
Relative response: correction factor of the reading at the adjustment of the sensor with isobutylene
MDL = minimum detectable concentration (minimum detection level), depending on the sensor
ZR = no response to this gas (zero response)
NF = not be measured because the vapor pressure at 20° C is down to only a few ppm.

Gas/ VOC	CAS No.	Formula	Relative response	Relative sensitivity (%)	Typical MDL PID-AH (ppb)	Typical MDL PID-A1 (ppb)
Acetaldehyde	75-07-0	C2H4O	4.9	21	25	480
Acetic Acid	64-17-7	C2H4O2	36.2	3	180	3615
Acetic Anhydride	108-24-7	C4H6O3	4.0	25	20	400
Acetone	67-64-1	C3H6O	0.7	140	5	70
Acetonitrile	75-05-8	CH3CN	ZR			
Acetylene	74-86-2	C2H2	ZR			
Acrolein	107-02-8	C3H4O	4.0	25	20	400
Acrylic Acid	79-10-7	C3H4O2	2.7	36	15	275
Acrylonitrile	107-13-1	C3H3N	ZR			
Allyl alcohol	107-18-6	C3H6O	2.1	48	10	200
Allyl chloride	107-05-1	C3H5Cl	4.5	22	20	450
Ammonia	7664-41-7	H3N	8.5	12	40	850
Amyl acetate, n-	628-63-7	C7H14O2	1.8	56	10	180
Amyl alcohol	71-41-0	C5H12O	3.2	31	15	320
Aniline	62-53-3	C6H7N	0.5	200	3	50
Anisole	100-66-3	C7H8O	0.5	211	2	50
Arsine	7784-42-1	AsH3	2.5	40	15	250
Asphalt, petroleum fumes	8052-42-4		1.0	100	5	100
Benzaldehyde	100-52-7	C7H6O	0.9	117	5	85
Benzene	71-43-2	C6H6	0.5	200	3	50
Benzenethiol	108-98-5	C6H5SH	0.7	143	4	70
Benzonitrile	100-47-0	C7H5N	0.7	141	4	70
Benzyl alcohol	100-51-6	C7H8O	1.3	80	6	125
Benzyl chloride	100-44-7	C7H7Cl	0.6	182	3	55
Benzyl formate	104-57-4	C8H8O2	0.8	130	5	77
Biphenyl	92-52-4	C12H10	0.4	250	2	40
Bis(2,3-epoxypropyl) ether	2238-07-5	C6H10O3	3.0	33	15	300
Boron trifluoride	7637 07 2	BF3	ZR			
Bromine	7726-95-6	Br2	20.0	5	100	2000
Bromine pentafluoride	7789-30-2	BrF5	ZR			
Bromobenzene	108-86-1	C6H5Br	0.7	143	4	70
Bromochloromethane	74-97-5	CH2ClBr	ZR			
Bromoethane	74-96-4	C2H5Br	5.0	20	25	500
Bromoethyl methyl ether, 2-	6482-24-2	C3H7OBr	2.5	40	15	250
Bromoform	75-25-2	CHBr3	2.8	36	15	280
Bromopropane, 1-	106-94-5	C3H7Br	1.3	77	7	130
Bromotrifluoromethane	75-63-8	CF3Br	ZR			
Butadiene	106-99-0	C4H6	0.8	120	4	80

Gas/ VOC	CAS No.	Formula	Relative response	Relative sensitivity (%)	Typical MDL PID-AH (ppb)	Typical MDL PID-A1 (ppb)
Cresol, p-	106-44-5	C7H8O	1.1	95	5	105
Crotonaldehyde	4170-30-3	C4H6O	1.0	100	5	100
Cumene	98-82-8	C9H12	0.6	170	3	60
Cyanamide	420-04-2	CH2N2	ZR			
Cyanogen bromide	506-68-3	CNBr	ZR			
Cyanogen chloride	506-77-4	CNCl	ZR			
Cyclohexane	110-82-7	C6H12	1.3	77	7	130
Cyclohexanol	108-93-0	C6H12O	2.9	34	15	300
Cyclohexanone	108-94-1	C6H10O	1.1	91	6	110
Cyclohexene	110-83-8	C6H10	0.8	133	5	75
Cyclohexylamine	108-91-8	C6H13N	1.0	102	5	100
Cyclopentane	287-92-3	C5H10	4.0	25	20	400
Decane, n-	124-18-5	C10H22	1.0	96	5	100
Diacetone alcohol	123-42-2	C6H12O2	0.8	125	5	80
Dibenzoyl peroxide	94-36-0	C14H10O4	0.8	125	5	80
Diborane	19287-45-7	B2H6	ZR			
Dibromochloromethane	124-48-1	CHBr2Cl	10.0	10	50	1000
Dibromodifluoromethane	75-61-6	CF2Br2	ZR			
Dibromoethane 1,2-	106-93-4	C2H4Br2	2.0	50	10	200
Dibromotetrafluoroethane , 1,2-	124-73-2	C2F4Br2	ZR			
Dibutyl hydrogen phosphate	107-66-4	HC8H18 PO4	4.0	25	20	400
Dichloro-1,1,1-trifluoroethane, 2,2-	306-83-2	C2HCl2F3	ZR			
Dichloro-1,1-difluoroethane, 1,2-	1649-08-7	C2H2Cl2F2	ZR			
Dichloro-1,2,2-trifluoroethane, 1,2-	354-23-4	C2HCl2F3	ZR			
Dichloro-1,2-difluoroethane, 1,2-	631-06-1	C2H2Cl2F2	ZR			
Dichloro-1-fluoroethane, 1,1-	1717-00-6	C2H3Cl2F	ZR			
Dichloro-1-fluoroethane, 1,1-	1717-00-6	C2H3Cl2F	ZR			
Dichloro-1-fluoroethane, 1,2-	430-57-9	C2H3Cl2F	ZR			
Dichloro-1-propene, 2,3-	78-88-6	C3H4Cl2	1.4	70	7	140
Dichloro-2,2,-difluoroethane, 1,1-	79-35-6	C2H2Cl2F2	ZR			
Dichloroacetylene	7572-29-4	C2Cl2	5.0	20	25	500
Dichlorobenzene o-	95-50-1	C6H4Cl2	0.5	200	3	50
Dichlorodifluoromethane	75-71-8	CCl2F2	ZR			
Dichloroethane 1,2-	107-06-2	C2H4Cl2	ZR			
Dichloroethane, 1,1-	75-34-3	C2H4Cl2	ZR			
Dichloroethene, 1,1-	75-35-4	C2H2Cl2	1.0	105	5	100
Dichloroethene, cis-1,2-	156-59-2	C2H2Cl2	0.8	125	4	80
Dichloroethene, trans-1,2-	540-59-0	C2H2Cl2	0.7	143	4	70
Dichloroethylene 1,2-	540-59-0	C2H2Cl2	0.8	133	4	75
Dichlorofluoromethane	75-43-4	CHFCl2	ZR			
Dichloromethane	75-09-2	CH2Cl2	39.0	3	200	3900
Dichloropropane, 1,2-	78-87-5	C3H6Cl2	ZR			
Dichlorotetrafluoroethane, 1,1-	374-07-2	C2Cl2F4	ZR			
Dichlorotetrafluoroethane, 1,2-	76-14-2	C2Cl2F4	ZR			
Dicyclopentadiene	77-73-6	C10H12	0.9	110	5	90
Diesel Fuel	68334-30-5		0.8	130	4	75
Diethyl ether	60-29-7	C4H10O	0.9	110	4	90

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Diethyl maleate	141-05-9	C8H12O4	2.0	50	10	200
Diethyl phthalate	84-66-2	C12H14O4	1.0	100	5	100
Diethyl sulphate	64-67-5	C4H10SO4	3.0	33	15	300
Diethyl sulphide	352-93-2	C4H10S	0.6	180	3	50
Diethylamine	109-89-7	C4H11N	1.0	100	5	100
Diethylaminoethanol, 2-	100-37-8	C6H15ON	2.7	40	15	270
Diethylaminopropylamine, 3-	104-78-9	C7H18N2	1.0	100	5	100
Difluoroethane, 1,1-	75-37-6	C2H4F2	ZR			
Difluoroethane, 1,2-	624-72-6	C2H4F2	ZR			
Difluoromethane	75-10-5	CH2F2	ZR			
Dihydrogen selenide	7783 07 5	H2Se	1.0	100	5	100
Dihydroxybenzene, 1,2	120-80-9	C6H6O2	1.0	100	5	100
Dihydroxybenzene, 1,3	108-46-3	C6H6O2	1.0	100	5	100
Diisobutylene	107-39-1	C8H16	0.6	156	3	60
Diisopropyl ether	108-20-3	C6H14O	0.7	150	3	70
Diisopropylamine	108-18-9	C6H15N	0.7	140	4	70
Diketene	674-82-8	C4H4O2	2.2	45	11	220
Dimethoxymethane	109-87-5	C3H8O2	1.4	71	7	140
Dimethyl cyclohexane, 1,2-	583-57-3	C8H16	1.1	95	5	105
Dimethyl disulphide	624-92-0	C2H6S2	0.2	435	1	23
Dimethyl ether	115-10-6	C2H6O	1.3	80	7	130
Dimethyl phthalate	131-11-3	C10H10O4	1.0	100	5	100
Dimethyl sulphate	77-78-1	C2H6O4S	ZR			
Dimethyl sulphide	75-18-3	C2H6S	0.5	200	3	50
Dimethylacetamide N,N-	127-19-5	C4H9NO	1.3	75	7	130
Dimethylamine	124-40-3	C2H7N	1.4	70	7	140
Dimethylaminoethanol	108-01-0	C4H11NO	1.5	70	8	150
Dimethylaniline, NN-	121-69-7	C8H11N	0.6	167	3	60
Dimethylbutyl acetate	108-84-9	C8H16O2	1.6	60	8	160
Dimethylethylamine, NN-	598-56-1	C4H11N	0.8	125	4	80
Dimethylformamide	68-12-2	C3H7NO	0.9	110	5	90
Dimethylheptan-4-one, 2,6-	108-83-8	C9H18O	0.8	125	4	80
Dimethylhydrazine, 1,1-	57-14-7	C2H8N2	1.0	100	5	100
Dinitrobenzene, m-	99-65-0	C6H4N2O4	3.0	33	15	300
Dinitrobenzene, o-	528-29-0	C6H4N2O4	ZR			
Dinitrobenzene, p-	100-25-4	C6H4N2O4	5.0	20	25	500
Dinonyl phthalate	84-76-4	C26H42O4	1.0	100	5	100
Dioxane 1,2-		C4H8O2	1.5	67	8	150
Dioxane 1,4-	123-91-1	C4H8O2	1.5	67	8	150
Dipentene	138-86-3	C10H16	0.9	110	5	90
Diphenyl ether	101-84-8	C12H10O	0.8	125	4	80
Disulphur decafluoride	5714-22-7	S2F10	ZR			
Disulphur dichloride	10025-67-9	S2Cl2	3.0	33	15	300
Di-tert-butyl-p-cresol	2409-55-4	C11H16O	1.0	100	5	100
Divinylbenzene	1321-74-0	C10H10	0.4	250	2	40
Dodecanol	112-53-8	C12H26O	0.9	110	5	90
Enflurane	13838-16-9	C4H2F5ClO	ZR			
Epichlorohydrin	106-89-8	C3H5ClO	8.0	15	40	800
Epoxypropyl isopropyl ether, 2,3-	4016-14-2	C6H12O2	1.1	90	5	110
Ethane	74-84-0	C2H6	ZR			
Ethanol	64-17-5	C2H6O	8.7	10	45	870
Ethanolamine	141-43-5	C2H7NO	3.0	33	15	300

Gas/ VOC	CAS No.	Formula	Relative response	Relative sensitivity (%)	Typical MDL PID-AH (ppb)	Typical MDL PID-A1 (ppb)
Ethoxy-2-propanol, 1-	1569-02-4	C5H10O2	2.0	50	10	200
Ethoxyethanol, 2-	110-80-5	C4H10O2	29.8	3	150	3000
Ethoxyethyl acetate, 2-	111-15-9	C6H12O3	3.0	33	15	300
Ethyl (S)-(-)-lactate	97-64-3	C5H10O3	3.0	33	15	300
Ethyl acetate	141-78-6	C4H8O2	3.6	28	20	360
Ethyl acrylate	140-88-5	C5H8O2	2.0	50	10	200
Ethyl amine	75-04-7	C2H7N	1.0	100	5	100
Ethyl benzene	100-41-4	C8H10	0.5	185	3	50
Ethyl butyrate	105-54-4	C6H12O2	1.0	105	5	100
Ethyl chloroformate	541-41-3	C3H5O2Cl	80	1	400	8300
Ethyl cyanoacrylate	7085-85-0	C6H7O2N	1.5	67	8	150
Ethyl decanoate	110-38-3	C12H24O2	1.8	56	10	180
Ethyl formate	109-94-4	C3H6O2	30	3	150	3000
Ethyl hexanoate	123-66-0	C8H16O2	2.6	38	15	260
Ethyl hexanol, 2-	105-76-7	C8H18O	1.5	67	8	150
Ethyl hexyl acrylate, 2-	103-11-7	C11H20O2	1.0	100	5	100
Ethyl mercaptan	75-08-1	C2H6S	0.7	145	3	70
Ethyl octanoate	106-32-1	C10H20O2	2.3	40	12	230
Ethylene	74-85-1	C2H4	8.0	13	40	800
Ethylene dinitrate	628-96-6	C2H4O6N2	ZR			
Ethylene glycol	107-21-1	C2H6O2	20.0	5	100	2000
Ethylene oxide	75-21-8	C2H4O	15.0	7	75	1500
Ferrocene	102-54-5	C10H10Fe	0.8	125	4	80
Fluorine	7782-41-4	F2	ZR			
Fluoroethane	353-33-6	C2H5F	ZR			
Fluoromethane	593-53-3	CH3F	ZR			
Formaldehyde	50-00-0	CH2O	ZR			
Formamide	75-12-7	CH3ON	2.0	50	10	200
Formic acid	64-18-6	CH2O2	ZR			
Furfural	98-01-1	C5H4O2	1.4	70	7	140
Furfuryl alcohol	98-00-0	C5H6O2	2.0	50	10	200
Gasoline vapors	8006-61-9		1.1	95	5	105
Gasoline vapors	8006-61-9		0.8	125	4	80
Gasoline vapors 92 octane	8006-61-9		0.8	125	4	80
Germane	7782-65-2	GeH4	10.0	10	50	1000
Glutaraldehyde	111-30-8	C5H8O2	0.9	111	5	90
Halothane	151-67-7	CF3CHBrCl	ZR			
Helium		He	ZR			
Heptan-2-one	110-43-0	C7H14O	0.7	140	4	70
Heptan-3-one	106-35-4	C7H14O	0.8	133	4	75
Heptane n-	142-82-5	C7H16	2.1	50	10	200
Hexachloroethane	67-72-1	C2Cl6	ZR			
Hexafluoroethane	76-16-4	C2F6	ZR			
Hexamethyldisilazane, 1,1,1,3,3,3-.	999-97-3	C6H19NSi2	1.0	100	5	100
Hexamethyldisiloxane.	107-46-0	C6H18OSi2	0.3	350	1	30
Hexan-2-one	591-78-6	C6H12O	0.8	125	4	80
Hexane n-	110-54-3	C6H14	4.2	25	20	420
Hexene, 1-	592-41-6	C6H12	0.9	110	5	90
Hydrazine	302-01-2	H4N2	3.0	33	15	300
Hydrazoic acid	7782-79-8	HN3	ZR			
Hydrogen	1333-74-0	H2	ZR			

Gas/ VOC	CAS No.	Formula	Relative response	Relative sensitivity (%)	Typical MDL PID-AH (ppb)	Typical MDL PID-A1 (ppb)
Hydrogen bromide	10035-10-6	HBr	ZR			
Hydrogen chloride	7647-01-0	HCl	ZR			
Hydrogen cyanide	74-90-8	HCN	ZR			
Hydrogen fluoride	7664-39-3	HF	ZR			
Hydrogen peroxide	7722-84-1	H2O2	4.0	25	20	400
Hydrogen sulfide	7783-06-4	H2S	4.0	25	20	400
Hydroquinone	123-31-9	C6H6O2	0.8	125	4	80
Hydroxypropyl acrylate 2-	999-61-1	C6H10O3	1.5	67	8	150
Iminodi(ethylamine) 2,2-	111-40-0	C4H13N3	0.9	110	5	90
Iminodiethanol 2,2'-	111-42-2	C4H11NO2	1.6	60	8	160
Indene	95-13-6	C9H8	0.5	220	2	50
Iodine	7553-56-2	I2	0.2	667	1	15
Iodoform	75-47-8	CHI3	1.5	67	8	150
Iodomethane	74-88-4	CH3I	0.4	250	2	40
Isoamyl acetate	123-92-2	C7H14O2	1.6	60	8	160
Isobutane	75-28-5	C4H10	8.0	15	40	800
Isobutanol	78-83-1	C4H10O	3.5	30	20	350
Isobutyl acetate	110-19-0	C6H12O2	2.3	45	10	230
Isobutyl acrylate	106-63-8	C7H12O2	1.3	80	7	130
Isobutylene	115-11-7	C4H8	1.0	100	5	100
Isobutyraldehyde	78-84-2	C4H8O	1.2	80	6	120
Isocyanates, all			NV			
Isodecanol	25339-17-7	C10H22O	0.9	110	5	90
Isoflurane	26675-46-7	C3H2ClF5O	ZR			
Isononanol	2452-97-9	C9H20O	1.5	67	8	150
Isooctane	565-75-3	C8H18	1.1	90	5	100
Isooctanol	26952-21-6	C8H18O	1.7	60	9	170
Isopentane	78-78-4	C5H12	6.0	20	30	600
Isophorone	78-59-1	C9H14O	0.8	133	4	75
Isoprene	78-79-5	C5H8	0.7	140	3	70
Isopropanol	67-63-0	C3H8O	4.4	20	22	440
Isopropyl acetate	108-21-4	C5H10O2	2.2	50	10	220
Isopropyl chloroformate	108-23-6	C4H7O2Cl	1.6	60	8	160
Jet Fuel JP-4			0.8	133	4	75
Jet Fuel JP-5			0.7	150	3	60
Jet Fuel JP-8			0.7	150	3	60
Kerosene	8008-20-6		0.8	120	4	90
Ketene	463-51-4	C2H2O	3.0	33	15	300
Liquefied petroleum gas	68476-85-7		ZR			
Maleic anhydride	108-31-6	C4H2O3	2.0	50	10	200
Mercaptoacetic acid	68-11-1	C2H4O2S	1.0	100	5	100
Mercury	7439-97-6	Hg	NV			
Mercury alkyls			NV			
Mesitylene	108-67-8	C9H12	0.3	300	2	30
Methacrylic acid	79-41-4	C4H6O2	2.3	40	12	230
Methacrylonitrile	126-98-7	C4H5N	5.0	20	25	500
Methane	74-82-8	CH4	ZR			
Methanol	67-56-1	CH4O	200	1	1000	20000
Methoxyethanol, 2-	109-86-4	C3H8O2	2.7	40	15	270
Methoxyethoxyethanol, 2-	111-77-3	C5H12O3	1.4	70	7	140
Methoxymethylethoxy-2-propanol	34590-94-8	C7H16O3	1.3	80	7	130

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Methoxypropan-2-ol	107-98-2	C4H10O2	3.0	33	15	300
Methoxypropyl acetate	108-65-6	C6H12O3	1.2	80	6	120
Methyl acetate	79-20-9	C3H6O2	5.2	20	25	500
Methyl acrylate	96-33-3	C4H6O2	3.4	30	17	340
Methyl bromide	74-83-9	CH3Br	1.9	50	10	190
Methyl cyanoacrylate	137-05-3	C5H5O2N	5.0	20	25	500
Methyl ethyl ketone	78-93-3	C4H8O	0.8	130	4	80
Methyl ethyl ketone peroxides	1338-23-4	C8H18O2	0.8	125	4	80
Methyl formate	107-31-3	C2H4O2	ZR			
Methyl isobutyl ketone	108-10-1	C6H12O	0.8	125	4	80
Methyl isocyanate	624-83-9	C2H3NO	ZR			
Methyl isothiocyanate	556-61-6	C2H3NS	0.6	167	3	60
Methyl mercaptan	74-93-1	CH4S	0.7	140	4	70
Methyl methacrylate	80-62-6	C5H8O2	1.6	60	8	160
Methyl propyl ketone	107-87-9	C5H10O	0.8	130	4	80
Methyl salicylate	119-36-8	C8H8O3	1.2	80	6	120
Methyl sulphide	75-18-3	C2H6S	0.5	200	3	50
Methyl t-butyl ether	1634-04-4	C5H12O	0.8	125	4	80
Methyl-2-propen-1-ol, 2-	51-42-8	C4H8O	1.1	90	5	100
Methyl-2-pyrrolidinone, N-	872-50-4	C5H9NO	0.9	110	5	90
Methyl-4,6-dinitrophenol, 2-	534-52-1	C7H6N2O5	3.0	33	15	300
Methyl-5-hepten-2-one, 6-	110-93-0	C8H14O	0.8	125	4	80
Methylamine	74-89-5	CH5N	1.4	70	7	140
Methylbutan-1-ol, 3-	123-51-3	C5H12O	3.4	30	17	340
Methylcyclohexane	108-87-2	C7H14	1.1	90	6	110
Methylcyclohexanol, 4-	589-91-3	C7H14O	2.4	40	12	240
Methylcyclohexanone 2-	583-60-8	C7H12O	1.0	100	5	100
Methylheptan-3-one, 5-	541-85-5	C8H16O	0.8	133	4	75
Methylhexan-2-one, 5-	110-12-3	C7H14O	0.8	133	4	75
Methylhydrazine	60-34-4	CH6N2	1.3	80	7	130
Methyl-N-2,4, 6-tetranitroaniline, N-	479-45-8	C7H5N5O8	3.0	33	15	300
Methylpent-3-en-2-one, 4-	141-79-7	C6H10O	0.7	140	4	70
Methylpentan-2-ol, 4-	108-11-2	C6H14O	2.8	40	14	280
Methylpentane-2,4-diol, 2-	107-41-5	C6H14O2	4.0	25	20	400
Methylpropan-2-ol, 2-	75-65-0	C4H10O	3.5	30	18	350
Methylstyrene	25013-15-4	C9H10	0.5	200	3	50
Mineral oil	8042-47-5		0.8	125	4	80
Mineral spirits	64475-85-0		0.8	125	4	80
Naphthalene	91-20-3	C10H8	0.4	230	2	45
Nitric oxide	10102-43-9	NO	8.0	15	40	800
Nitroaniline 4-	100-01-6	C6H6N2O2	0.8	125	4	80
Nitrobenzene	98-95-3	C6H5NO2	1.7	60	10	170
Nitroethane	79-24-3	C2H5NO2	ZR			
Nitrogen dioxide	10102-44-0	NO2	10.0	10	50	1000
Nitrogen trichloride	10025-85-1	NCl3	1.0	100	5	100
Nitrogen trifluoride	7783-54-2	NF3	ZR			
Nitromethane	75-52-5	CH3NO2	ZR			
Nitropropane, 1-	108-03-2	C3H7NO2	ZR			
Nitropropane, 2-	79-46-9	C3H7NO2	ZR			
Nitrous oxide	10024-97-2	N2O	ZR			
Nonane, n-	111-84-2	C9H20	1.3	80	6	130

Gas/ VOC	CAS No.	Formula	Relative response	Relative sensitivity (%)	Typical MDL PID-AH (ppb)	Typical MDL PID-A1 (ppb)
Norbornadiene, 2,5-	121-46-0	C7H8	0.6	167	3	60
Octachloronaphthalene	2234-13-1	C10Cl8	1.0	100	5	100
Octane, n-	111-65-9	C8H18	1.6	60	8	160
Octene, 1-	111-66-0	C8H16	0.7	140	3	70
Oxalic acid	144-62-7	C2H2O4	ZR			
Oxalonitrile	460-19-5	C2N2	ZR			
Oxydiethanol 2,2-	111-46-6	C4H10O3	4.0	25	20	400
Oxygen		O2	ZR			
Ozone	10028-15-6	O3	ZR			
Paraffin wax, fume	8002-74-2		1.0	100	5	100
Paraffins, normal	64771-72-8		1.0	105	5	100
Pentacarbonyl iron	13463-40-6	FeC5O5	1.0	100	5	100
Pentachloroethane	76-01-7	C2HCl5	ZR			
Pentachlorofluoroethane	354-56-3	C2Cl5F	ZR			
Pentafluoroethane	354-33-6	C2HF5	ZR			
Pentan-2-one	107-87-9	C5H10O	0.8	125	4	80
Pentan-3-one	96-22-0	C5H10O	0.8	125	4	80
Pentandione, 2,4-	123-54-6	C5H8O2	0.8	133	4	75
Pentane, n-	109-66-0	C5H12	7.9	15	40	800
Peracetic acid	79-21-0	C2H4O3	2.0	50	10	200
Perchloryl fluoride	7616-94-6	Cl03F	ZR			
Perfluoropropane	76-19-7	C3F8	ZR			
Petroleum ether			0.9	110	5	90
Phenol	108-95-2	C6H6O	1.2	85	6	120
Phenyl propene, 2-	98-83-9	C9H10	0.4	230	2	45
Phenyl-2,3-epoxypropyl ether	122-60-1	C9H10O2	0.8	125	4	80
Phenylenediamine, p-	106-50-3	C6H8N2	0.6	167	3	60
Phosgene	75-44-5	COCl2	ZR			
Phosphine	7803-51-2	PH3	2.0	50	10	200
Picoline, 3-	108-99-6	C6H7N	0.9	110	5	90
Pinene, alpha	80-56-8	C10H16	0.3	315	2	30
Pinene, beta	127-91-3	C10H16	0.3	315	2	30
Piperidine	110-89-4	C5H11N	0.9	110	5	90
Piperylene	504-60-9	C5H8	0.7	150	3	67
Prop-2-yn-1-ol	107-19-7	C3H4O	1.3	80	7	130
Propan-1-ol	71-23-8	C3H8O	4.8	20	25	480
Propane	74-98-6	C3H8	ZR			
Propane-1,2-diol, total	57-55-6	C3H8O2	10.0	10	50	1000
Propene	115-07-1	C3H6	1.4	70	7	140
Propionaldehyde	123-38-6	C3H6O	1.7	60	8	169
Propionic acid	79-09-4	C3H6O2	8.0	15	40	800
Propyl acetate, n-	109-60-4	C5H10O2	2.5	40	13	250
Propylene dinitrate	6423-43-4	C3H6N2O6	ZR			
Propylene oxide	75-56-9	C3H6O	7.0	15	35	700
Propyleneimine	75-55-8	C3H7N	1.3	80	7	130
Pyridine	110-86-1	C5H5N	0.8	133	4	75
Pyridylamine 2-	504-29-0	C5H6N2	0.8	125	4	80
Silane	7803-62-5	SiH4	ZR			
Sodium fluoroacetate	62-74-8	C2H2O2FNa	ZR			
Styrene	100-42-5	C8H8	0.4	230	2	50
Sulphur dioxide	7446-09-5	SO2	ZR			
Sulphur hexafluoride	2551-62-4	SF6	ZR			

Gas/ VOC	CAS No.	Formula	Relative response	Relative sensitivity (%)	Typical MDL PID-AH (ppb)	Typical MDL PID-A1 (ppb)
Sulphur tetrafluoride	7783-60-0	SF4	ZR			
Sulphuric acid	7664-93-9	H2SO4	ZR			
Sulphuryl fluoride	2699-79-8	SO2F2	ZR			
Terphenyls		C18H14	0.6	167	3	60
Terpinolene	586-62-9	C10H16	0.5	210	2	50
Tert-butanol	75-65-0	C4H10O	2.6	40	15	260
Tetrabromoethane, 1,1,2,2-	79-27-6	C2H2Br4	2.0	50	10	200
Tetracarbonylnickel	13463-39-3	NiC4O4	1.0	100	5	100
Tetrachloro-1,2-difluoroethane, 1,1,2,2-	76-12-0	C2Cl4F2	ZR			
Tetrachloro-1-fluoroethane, 1,1,2,2-	354-14-3	C2HCl4F	ZR			
Tetrachloro-2,2-difluoroethane, 1,1,1,2-	76-11-9	C2Cl4F2	ZR			
Tetrachloro-2-fluoroethane, 1,1,1,2-	354-11-0	C2HCl4F	ZR			
Tetrachloroethane, 1,1,1,2-	630-20-6	C2H2Cl4	ZR			
Tetrachloroethane, 1,1,2,2-	79-34-5	C2H2Cl4	ZR			
Tetrachloroethylene	127-18-4	C2Cl4	0.7	140	4	70
Tetrachloronaphthalenes, all isomers	20020-02-4	C10H4Cl4	1.0	100	5	100
Tetraethyl orthosilicate	78-10-4	C8H20O4Si	2.0	50	10	200
Tetraethyllead	78-00-2	C8H20Pb	ZR			
Tetrafluoroethane, 1,1,1,2-	811-97-2	C2H2F4	ZR			
Tetrafluoroethane, 1,1,2,2-	359-35-3	C2H2F4	ZR			
Tetrafluoroethylene	116-14-3	C2F4	1.0	100	5	100
Tetrafluoromethane	75-73-0	CF4	ZR			
Tetrahydrofuran	109-99-9	C4H8O	1.6	65	8	150
Tetramethyl orthosilicate	681-84-5	C4H12O4Si	ZR			
Tetramethyl succinonitrile	3333-52-6	C8H12N2	1.0	100	5	100
Therminol			1.0	100	5	100
Thionyl chloride	7719-09-7	SOCl2	ZR			
Toluene	108-88-3	C7H8	0.5	200	3	50
Toluene-2,4-diisocyanate	584-84-9	C9H6N2O2	1.6	60	8	160
Toluenesulphonyl chloride, p-	98-59-9	C7H7SO2Cl	3.0	33	15	300
Toluidine, o-	95-53-4	C7H9N	0.5	200	3	50
Tributyl phosphate	126-73-8	C12H27O4P	5.0	20	25	500
Tributylamine	102-82-9	C12H27N	1.0	100	5	100
Trichloro-1,1-difluoroethane, 1,2,2-	354-21-2	C2HCl3F2	ZR			
Trichloro-1,2-difluoroethane, 1,1,2-	354-15-4	C2HCl3F2	ZR			
Trichloro-2,2-difluoroethane, 1,1,1-	354-12-1	C2HCl3F2	ZR			
Trichloro-2-fluoroethane, 1,1,2-	359-28-4	C2H2Cl3F	ZR			
Trichlorobenzene 1,2,4-	120-82-1	C6H3Cl3	0.6	180	3	50
Trichloroethane, 1,1,1-	71-55-6	C2H3Cl3	ZR			
Trichloroethane, 1,1,2-	79-00-5	C2H3Cl3	ZR			
Trichloroethylene	79-01-6	C2HCl3	0.7	150	3	65
Trichlorofluoromethane	75-69-4	CCl3F	ZR			
Trichloronitromethane	76-06-2	CCl3NO2	ZR			
Trichlorophenoxyacetic acid, 2,4,5-	93-76-5	C8H5O3Cl3	1.0	100	5	100
Trichloropropane 1,2,3-	96-18-4	C3H5Cl3	ZR			

Gas/ VOC	CAS No.	Formula	Relative response	Relative sensitivity (%)	Typical MDL PID-AH (ppb)	Typical MDL PID-A1 (ppb)
Trichlorotrifluoroethane, 1,1,1-	354-58-5	C2Cl3F3	ZR			
Trichlorotrifluoroethane, 1,1,2-	76-13-1	C2Cl3F3	ZR			
Triethylamine	121-44-8	C6H15N	0.9	110	5	90
Trifluoroethane, 1,1,1-	420-46-2	C2H3F3	ZR			
Trifluoroethane, 1,1,2-	430-66-0	C2H3F3	ZR			
Trifluoroethanol, 2,2,2-	75-89-8	C2H3F3O	ZR			
Trifluoromethane	75-46-7	CHF3	ZR			
Trimethylamine	53-50-3	C3H9N	0.5	200	3	50
Trimethylbenzene mixtures		C9H12	0.3	300	2	35
Trimethylbenzene, 1,3,5-	108-67-8	C9H12	0.3	300	2	35
Trinitrotoluene 2,4,6-	118-96-7	C7H5N3O6	ZR			
Turpentine	8006-64-2	C10H16	0.6	167	3	60
TVOC			1.0	100	5	100
Undecane, n-	1120-21-4	C11H24	0.9	110	5	100
Vinyl acetate	108-05-2	C4H6O2	1.1	90	6	110
Vinyl bromide	593-60-2	C2H3Br	1.0	100	5	100
Vinyl chloride	75-01-4	C2H3Cl	2.1	50	10	200
Vinyl-2-pyrrolidinone, 1-	88-12-0	C6H9NO	0.9	110	5	90
Xylene mixed isomers	1330-20-7	C8H10	0.4	230	2	40
Xylene, m-	108-38-3	C8H10	0.4	230	2	50
Xylene, o-	95-47-6	C8H10	0.6	167	3	60
Xylene, p-	106-42-3	C8H10	0.6	180	3	50
Xylidine, all	1300-73-8	C8H11N	0.7	140	4	70