



ION science INNOVATION		Ionisation Potential	PID response factors				LEL	EH40 safety thresholds				NIOSH Safety Thresholds						OSHA			
			ZR = No Response = Non Volatile at 20C NA = No DATA Available RED = Tested Blue = Calculated					Response factor, methane = 1	ppm STEL	ppm TWA	mg.m-3 STEL	mg.m-3 TWA	ppm	ppm TWA	mg.m-3	mg.m-3 TWA	ppm	mg.m-3	ppm	TWA ppm	TWA mg.m-3
			11.7	10.6	10.2	8.4															
Gas/Volatile (VOC)	Formula	IP																			
Acetaldehyde	C2H4O	10.23	3.3	4.861	1	ZR		50	20	92	37								2000	200	360
Acetic Acid	C2H4O2	10.66	2.6	36.153	ZR	ZR		15	10	37	25	15	10	37	25				50		
Acetic Anhydride	C4H6O3	10.14	2	4.000	ZR	ZR		2	0.5	10	2.5				5	20		200	5	20	
Acetone	C3H6O	9.69	1.4	0.715	1	1.2	1.54	1500	500	3620	1210			250		590		2500	1000	2400	
Acetonitrile	CH3CN	12.2	100	ZR	ZR	ZR		60	40	102	68			20		34		500	40	70	
Acetylene	C2H2	11.4	2	ZR	ZR	ZR	1.25									2500	2662		ND		
Acrolein	C3H4O	10.22	3	4.000	1	ZR		0.3	0.1	0.7	0.23	0.3	0.1	0.8	0.25			2	0.1	0.25	
Acrylic Acid	C3H4O2	10.6	2	2.749	ZR	ZR		20	10	60	30			2		6		ND			
Acrylonitrile	C3H3N	10.91	1.2	ZR	ZR	ZR					4.4			1		10		85	2		
Allyl alcohol	C3H6O	9.63	1.7	2.074	2	ZR		4	2	9.7	4.8	4	2	10	5			20	2	5	
Allyl chloride	C3H5Cl	10.05	0.7	4.500	ZR	ZR						2	1	6	3			250	1	3	
Ammonia	H3N	10.18	5.7	8.496	8	ZR	0.80	35	25	25	18	35	25	27	18			300	50	35	
Amyl acetate, n-	C7H14O2	9.9	1	1.800	ZR	ZR								100		525		1000	100	525	
Amyl alcohol	C5H12O	10	4	3.200	5	ZR															
Aniline	C6H7N	7.70	0.47	0.500	0.5	0.5				1	4							100	5	19	
Anisole	C7H8O	8.21	1	0.473	1	1															
Arsine	AsH3	9.89	3	2.500	2	ZR			0.05		0.16						0.002	3	0.05	0.2	
Asphalt, petroleum fumes		9	NA	1.000	NA	NA					10	5									
Benzaldehyde	C7H6O	9.49	1	0.858	1	ZR															
Benzene	C6H6	9.24	0.6	0.500	0.53	ZR				1		1	0.1					500	1		
Benzenethiol	C6H5SH	8.32	NA	0.700	NA	NA			0.5		2.3					0.1	0.5	ND			
Benzonitrile	C7H5N	9.62	2	0.708	1	ZR															
Benzyl alcohol	C7H8O	8.26	0.9	1.250	1.2	1.4															
Benzyl chloride	C7H7Cl	9.14	0.5	0.550	1	ZR		1.5	0.5	7.9	2.6			1		5		10	1	5	
Benzyl formate	C8H8O2	9.32	0.66	0.770	1	ZR															
Biphenyl	C12H10	8.23	NA	0.400	NA	NA		0.6	0.2	3.8	1.3			0.2		1		20	0.2	1	
Bis(2,3-epoxypropyl) ether	C6H10O3	9.6	NA	3.000	NA	NA					0.54										
Boron trifluoride	BF3	15.5	ZR	ZR	ZR	ZR															
Bromine	Br2	10.55	0.74	20.000	ZR	ZR		0.3	0.1	2	0.66	0.3	0.1	2	0.7			3	0.1	0.7	
Bromine pentafluoride	BrF5	13.17	ZR	ZR	ZR	ZR		0.3	0.1	2.2	0.73			0.1		0.7		ND			
Bromobenzene	C6H5Br	8.98	0.5	0.700	1	ZR															
Bromochloromethane	CH2ClBr	10.77	NA	ZR	ZR	ZR		250	200	1340	1080			200		1050		2000	200	1050	
Bromoethane	C2H5Br	10.29	NA	5.000	ZR	ZR		250	200	1130	906							2000	200	890	
Bromoethyl methyl ether, 2-	C3H7OBr	10	2	2.500	1	ZR															
Bromoform	CHBr3	10.48	0.5	2.800	2	ZR				0.5	5.3			0.5		5		850	0.5	5	
Bromopropane, 1-	C3H7Br	10.18	0.6	1.300	1	ZR															
Bromotrifluoromethane	CF3Br	11.78	NA	ZR	ZR	ZR		1200	1000	7430	6190			1000		6100		40000	1000	6100	
Butadiene	C4H6	9.07	1.1	0.830	1	ZR												2000	1		
Butadiene diepoxide, 1,3-	C4H6O2	10	1.2	4.000	10	ZR															
Butane, n-	C4H10	10.63	1	46.290	ZR	ZR	1.67	750	600	1810	1450			800		1900		ND			
Butanol, 1-	C4H10O	10.04	1.4	4.011	70	ZR		30	50		30					50	150	1400	100	300	
Buten-3-ol, 1-	C4H8O	9.20	NA	1.150	NA	NA															
Butene, 1-	C4H8	9.58	NA	1.300	1.5	ZR															
Butoxyethanol, 2-	C6H14O2	8.6	0.62	1.100	1	1.8		50	25					5		24		700	50	240	
Butyl acetate, n-	C6H12O2	10.00	NA	2.418	2	ZR		200	150	966	724	200	150	950	710			1700	150	710	
Butyl acrylate, n-	C7H12O2	8.60	0.6	1.500	1	ZR		5	1	26	5			10		55		ND			
Butyl lactate	C7H14O3	9.80	NA	2.500	NA	NA				5	30			5		25		ND			
Butyl mercaptan	C4H10S	9.15	2	0.540	0.55	ZR										0.5	1.8	500	10	35	
Butylamine, 2-	C4H11N	8.6	NA	0.900	NA	NA															
Butylamine, n-	C4H11N	8.71	0.7	1.000	1	1.1		5		15						5	15	300			
Camphene	C10H16	8.10	NA	0.450	NA	NA															
Carbon dioxide	CO2	13.77	ZR	ZR	NA	NA		15000	5000	27400	9150	30000	5000	54000	9000			40000	5000	9000	
Carbon disulfide	CS2	10.08	0.3	1.400	1	ZR				10	32	10	1	30	3			500	20		
Carbon monoxide	CO	14.01	ZR	ZR	ZR	ZR	0.91	200	30	232	35			35		40	200	229	1200	50	55
Carbon tetrabromide	CBR4	10.31	NA	3.000	NA	NA		0.3	0.1	4.1	1.4	0.3	0.1	4	1.4			ND			
Carbon tetrachloride	CCl4	11.47	1.7	ZR	ZR	ZR				2	13	2		12.6				200	10	63	
Carbonyl sulphide	COS	11.18	11	ZR	ZR	ZR															
Carvone, R-	C10H14O	9.10	NA	1.000	NA	NA															
Chlorine	Cl2	11.48	1	ZR	ZR	ZR		1	0.5	2.9	1.5					0.5	1.45	10	1	3	
Chlorine dioxide	ClO2	10.36	2	1.000	ZR	ZR		0.3	0.1	0.84	0.28	0.3	0.1	0.9	0.3			5	0.1	0.3	
Chlorine trifluoride	ClF3	12.65	NA	ZR	ZR	ZR		0.1		0.38						0.1	0.4	20	0.1		
Chloro-1,1,1,2-tetrafluoroethane, 2-	C2HClF4	11.80	NA	ZR	ZR	ZR															
Chloro-1,1,1-trifluoroethane, 2-	C2H2ClF3	11.7	1	ZR	ZR	ZR															
Chloro-1,1,2,2-tetrafluoroethane, 1-	C2HClF4	11.5	NA	ZR	ZR	ZR															
Chloro-1,1,2-trifluoroethane, 1-	C2H2ClF3	11.8	1	ZR	ZR	ZR															
Chloro-1,1-difluoroethane, 1-	C2H3ClF2	12	ZR	ZR	ZR	ZR															
Chloro-1,1-difluoroethane, 1-	C2H3ClF2	11.98	1	ZR	ZR	ZR															
Chloro-1,1-difluoroethane, 2-	C2H3ClF2	11.80	1	ZR	ZR	ZR															
Chloro-1,2,2-trifluoroethane, 1-	C2H2ClF3	11.5	1	ZR	ZR	ZR															
Chloro-1,3-butadiene, 2-	C4H5Cl	8.79	4	3.200	3	ZR					37										
Chloro-1-fluoroethane, 1-	C2H4ClF	11.3	1	ZR	ZR	ZR															
Chloro-2-fluoroethane, 1-	C2H4ClF	11.30	1	ZR	ZR	ZR															
Chloroacetaldehyde	C2H3OCl	10.61	NA	ZR	ZR	ZR					3.3							3	45	1	3
Chlorobenzene	C6H5Cl	9.07	0.39	0.450	1	ZR		3	1									1000	75	350	
Chlorodifluoromethane</																					

		Ionisation Potential	PID response factors				LEL	EH40 safety thresholds				NIOSH Safety Thresholds						OSHA			
			IP	11.7	10.6	10.2		8.4	ppm STEL	ppm TWA	mg.m-3 STEL	mg.m-3 TWA	ppm	ppm TWA	mg.m-3	mg.m-3 TWA	ppm	mg.m-3	ppm	TWA ppm	TWA mg.m-3
Gas/Volatile (VOC)	Formula		ZR = No Response = Non Volatile at 20C NA = No DATA Available RED = Tested Blue = Calculated				Response Factor, methane = 1	STEL	TWA	STEL	TWA	ST	REL	ST	REL	Ceiling	Ceiling	IDLH	PEL	PEL	
Chloromethane	CH3Cl	11.28	0.74	ZR	ZR	ZR		100	50	210	105							2000	100		
Chloropentafluoroethane	C2ClF5	12.96	ZR	ZR	ZR	ZR			1000		6320			1000			6320		ND	1000	6320
Chlorotoluene, o-	C7H7Cl	8.83	0.6	0.450	1	1							75	50	375	250			ND		
Chlorotoluene, p-	C7H7Cl	8.69	0.6	0.500	1	1															
Chlorotrifluoroethylene	C2ClF3	9.81	1	1.000	ZR	ZR															
Chlorotrifluoromethane	CClF3	12.60	NA	ZR	ZR	ZR															
Citral	C10H16O	8.70	NA	1.000	NA	NA															
Citronellol	C10H20O	8.50	NA	1.000	NA	NA															
Cresol, m-	C7H8O	8.97	NA	1.050	ZR	ZR			5		22		2.3		10			250	5	22	
Cresol, o-	C7H8O	8.97	NA	1.050	ZR	ZR			5		22		2.3		10			250	5	22	
Cresol, p-	C7H8O	8.97	NA	1.050	ZR	ZR			5		22		2.3		10			250	5	22	
Crotonaldehyde	C4H6O	9.73	1	1.000	2	1.5							2		6			50	2	6	
Cumene	C9H12	8.75	0.4	0.588	0.5	15		50	25	250	125		50		245			900	50	245	
Cyanamide	CN2	10.65	NA	ZR	ZR	ZR					2			2	2			ND			
Cyanogen bromide	CNBr	11.84	ZR	ZR	ZR	ZR					5										
Cyanogen chloride	CNCl	12.49	ZR	ZR	ZR	ZR															
Cyclohexane	C6H12	9.86	0.64	1.162	2	3.3	1.82	300	100	1050	350		300		1050			1300	300	1050	
Cyclohexanol	C6H12O	10.00	1.1	2.906	1	ZR			50		208		50		200			400	50	200	
Cyclohexanone	C6H10O	9.40	0.7	1.039	1	ZR		20	10				25		100			700	50	200	
Cyclohexene	C6H10	8.95	1	0.750	1	ZR							300		1015			2000	300	1015	
Cyclohexylamine	C6H13N	8.37	1	0.981	1	1			10		41		10		40			ND			
Cyclopentane	C5H10	10.52	0.6	4.000	ZR	ZR							600		1720			ND			
Decane, n-	C10H22	9.65	0.35	1.043	2	ZR															
Diacetone alcohol	C6H12O2	9.00	NA	0.800	NA	NA							50		240			1800	50	240	
Dibenzoyl peroxide	C14H10O4	9.00	NA	0.800	NA	NA				5											
Diborane	B2H6	11.38	NA	ZR	ZR	ZR			0.1		0.12		0.1		0.1			15	0.1	0.1	
Dibromochloromethane	CHBr2Cl	10.59	0.7	10.000	5	ZR															
Dibromodifluoromethane	CF2Br2	11.07	NA	ZR	ZR	ZR		150	100	1310	872		100		860			2000	100	860	
Dibromoethane 1,2-	C2H4Br2	9.45	0.6	2.000	ZR	ZR			0.5		3.9		0.045			0.13		100	20		
Dibromotetrafluoroethane, 1,2-	C2F4Br2	11.1	NA	ZR	ZR	ZR															
Dibutyl hydrogen phosphate	HC8H18PO4	10.00	NA	4.000	NA	NA		2	1	17	8.7		2	1	10	5			30	1	5
Dichloro-1,1,1-trifluoroethane, 2,2-	C2HCl2F3	11	NA	ZR	ZR	ZR															
Dichloro-1,1-difluoroethane, 1,2-	C2H2Cl2F2	11	1	ZR	ZR	ZR															
Dichloro-1,2,2-trifluoroethane, 1,2-	C2HCl2F3	11	NA	ZR	ZR	ZR															
Dichloro-1,2-difluoroethane, 1,2-	C2H2Cl2F2	11	1	ZR	ZR	ZR															
Dichloro-1-fluoroethane, 1,1-	C2H3Cl2F	11	2	ZR	ZR	ZR															
Dichloro-1-fluoroethane, 1,1-	C2H3Cl2F	11	1	ZR	ZR	ZR															
Dichloro-1-fluoroethane, 1,2-	C2H3Cl2F	11	1	ZR	ZR	ZR															
Dichloro-1-propene, 2,3-	C3H4Cl2	10.50	0.7	1.400	1	1.9															
Dichloro-2,2,-difluoroethane, 1,1-	C2H2Cl2F2	11.5	10	ZR	ZR	ZR															
Dichloroacetylene	C2Cl2	9.9	NA	5.000	NA	NA		0.1		0.39						0.1	0.4	ND			
Dichlorobenzene o-	C6H4Cl2	9.06	0.38	0.500	0.5	ZR		50	25	306	153					50	300	200			
Dichlorodifluoromethane	CCl2F2	11.75	ZR	ZR	ZR	ZR		1250	1000	6280	5030		1000		4950			15000	1000	4950	
Dichloroethane 1,2-	C2H4Cl2	11.05	0.6	ZR	ZR	ZR			5		21	2	1	8	4			50	50	200	
Dichloroethane, 1,1-	C2H4Cl2	11.06	2	ZR	ZR	ZR			100				100		400			3000	100	400	
Dichloroethene, 1,1-	C2H2Cl2	10.00	1	0.950	1	ZR			10		40							ND			
Dichloroethene, cis-1,2-	C2H2Cl2	9.66	1	0.800	1	ZR												1000			
Dichloroethene, trans-1,2-	C2H2Cl2	9.65	0.3	0.700	1	ZR												1000			
Dichloroethylene 1,2-	C2H2Cl2	9.65	NA	0.750	NA	ZR		250	200	1010	806		200		790			1000	200	790	
Dichlorofluoromethane	CHFCl2	12.39	ZR	ZR	ZR	ZR			10		43		10		40			5000	1000	4200	
Dichloromethane	CH2Cl2	11.32	0.89	39.000	ZR	ZR		300	100	1060	350										
Dichloropropane, 1,2-	C3H6Cl2	10.87	0.7	ZR	1	ZR															
Dichlorotetrafluoroethane, 1,1-	C2Cl2F4	12.2	ZR	ZR	ZR	ZR															
Dichlorotetrafluoroethane, 1,2-	C2Cl2F4	12.20	ZR	ZR	ZR	ZR															
Dicyclopentadiene	C10H12	8.00	1	0.900	NA	ZR															
Diesel Fuel		8	0.4	0.750	3	10															
Diethyl ether	C4H10O	9.53	1.9	0.884	ZR	ZR		200	100	620	310							1900	400	1200	
Diethyl maleate	C8H12O4	10	NA	2.000	NA	NA															
Diethyl phthalate	C12H14O4	9	NA	1.000	NA	NA									5				ND		
Diethyl sulphate	C4H10SO4		NA	3.000	NA	NA			0.05		0.32										
Diethyl sulphide	C4H10S	8.43	1	0.550	1	3															
Diethylamine	C4H11N	8.01	1	1.000	1	1		25	10	76	30		25	10	75	30		200	25	75	
Diethylaminoethanol, 2-	C6H15ON	9	NA	2.700	NA	NA			10		49		10		50			100	10	50	
Diethylaminopropylamine, 3-	C7H18N2	9.00	NA	1.000	NA	NA															
Difluoroethane, 1,1-	C2H4F2	11.87	ZR	ZR	ZR	ZR															
Difluoroethane, 1,2-	C2H4F2	12	ZR	ZR	ZR	ZR															
Difluoromethane	CH2F2	12.71	ZR	ZR	ZR	ZR															
Dihydrogen selenide	H2Se	9.88	NA	1.000	NA	ZR		0.05	0.02												
Dihydroxybenzene, 1,2	C6H6O2	9	NA	1.000	NA	ZR			5		23		5		20			ND			
Dihydroxybenzene, 1,3	C6H6O2	8.63	NA	1.000	NA	ZR		20	10	92	46		20	10	90	45		ND			
Diisobutylene	C8H16	8.8	NA	0.643	NA	NA															
Diisopropyl ether	C6H14O	9.2	NA	0.680	1	ZR		310	250	1310	1060		500		2100			1400	500	2100	
Diisopropylamine	C6H15N	7.73	0.53	0.700	1	0.84			5		21		5		20			200	5	20	
Diketene	C4H4O2	9.60	1.4	2.200	2	2.6															
Dimethoxymethane	C3H8O2	9.70	NA	1.400	NA	ZR		1250	1000	3950	3160		1000		3100			2200	1000	3100	
Dimethyl cyclohexane, 1,2-	C8H16	9.41	NA	1.050	NA	NA															
Dimethyl disulphide	C2H6S2	7.4	0.2	0.230	0.2	0.2															
Dimethyl ether	C2H6O	10.03	NA	1.300	4.8	4.8		500	400	958	766										
Dimethyl phthalate	C10H10O4	9.64	NA	1.000	NA	NA				10	5										
Dimethyl sulphate	C2H6O4S	12.00	2.3	ZR	20	23			0.05		0.26		0.1		0.5			7	1	5	

Gas/Volatile (VOC)	Formula	IP	PID response factors				LEL	EH40 safety thresholds				NIOSH Safety Thresholds						OSHA		
			11.7	10.6	10.2	8.4		ppm STEL	ppm TWA	mg.m-3 STEL	mg.m-3 TWA	ppm	ppm TWA	mg.m-3	mg.m-3 TWA	ppm	mg.m-3	ppm	TWA ppm	TWA mg.m-3
			ZR = No Response = Non Volatile at 20C NA = No DATA Available RED = Tested Blue = Calculated					Response Factor: methane = 1				ST	REL	ST	REL	Ceiling	Ceiling	IDLH	PEL	PEL
Dimethyl sulphide	C2H6S	8.69	0.46	0.500	0.5	0.49		50	100		10									
Dimethylacetamide N,N-	C4H9NO	8.81	0.8	1.300	0.8	0.9		20	10	72	36									
Dimethylamine	C2H7N	8.24	2	1.400	1.5	1.5		6	2	11	3.8		10		18		500	10	18	
Dimethylaminoethanol	C4H11NO	9	NA	1.500	NA	ZR		6	2	22	7.4									
Dimethylaniline, NN-	C8H11N	7.12	NA	0.600	NA	ZR		10	5	50	25		10	5	50	25	100	5	25	
Dimethylbutyl acetate	C8H16O2	7.74	2	1.600	2	2		100	50	599	299									
Dimethylethylamine, NN-	C4H11N	8.5	0.9	0.800	1	1.1		15	10	46	30									
Dimethylformamide	C3H7NO	9.13	1	0.900	1	ZR		20	10	61	30		10		30		500	10	30	
Dimethylheptan-4-one, 2,6-	C9H18O	9.04	NA	0.800	NA	NA					148									
Dimethylhydrazine, 1,1-	C2H8N2	8.05	0.8	1.000	2	2							0.06		0.15		15	0.5	1	
Dinitrobenzene, m-	C6H4N2O4	10.43	NA	3.000	NA	NA		0.5	0.15	3.5	1				1				1	
Dinitrobenzene, o-	C6H4N2O4	10.71	NA	ZR	NA	NA		0.5	0.15	3.5	1				1				1	
Dinitrobenzene, p-	C6H4N2O4	10.5	NA	5.000	NA	NA		0.5	0.15	3.5	1				1				1	
Dinonyl phthalate	C26H42O4	9.19	NA	1.000	NA	NA					5									
Dioxane 1,2-	C4H8O2	9.2	NA	1.500	0.54	ZR														
Dioxane 1,4-	C4H8O2	9.13	NA	1.500	NA	NA		100	25	366	91		100		360	1	3.6	500		
Dipentene	C10H16	8.6	1	0.900	NA	ZR														
Diphenyl ether	C12H10O	8.09	NA	0.800	NA	ZR				1	7.1									
Disulphur decafluoride	S2F10	12.77	NA	ZR	NA	NA		0.075	0.025	0.79	0.26					0.01	0.1	1	0.025	0.25
Disulphur dichloride	S2Cl2	10	NA	3.000	NA	NA		1		5.6										
Di-tert-butyl-p-cresol	C11H16O	8.3	NA	1.000	NA	NA					10				10			ND		
Divinylbenzene	C10H10	8.2	NA	0.400	NA	ZR				10	54				50			ND		
Dodecanol	C12H26O	9.8	1	0.900	NA	ZR														
Enflurane	C4H2F5ClO	11.00	NA	ZR	NA	NA				50	383					2	15.1	ND		
Epichlorohydrin	C3H5ClO	10.2	1.4	8.000	1	ZR		1.5	0.5	5.8	1.9							75	5	19
Epoxypropyl isopropyl ether, 2,3-	C8H12O2	10.00	NA	1.100	NA	NA		75	50	363	241									
Ethane	C2H6	11.56	NA	ZR	NA	NA														
Ethanol	C2H6O	10.43	8	8.720	NA	ZR	1.43		1000		1920		1000		2900			3300	1000	3900
Ethanolamine	C2H7NO	10.47	3	3.000	ZR	ZR							6	3	15	8		30	3	8
Ethoxy-2-propanol, 1-	C5H10O2	9.60	0.8	2.000	NA	ZR		100	50	548	274									
Ethoxyethanol, 2-	C4H10O2	9.6	3	29.837	1	ZR				10	37			0.5		1.8		500	200	740
Ethoxyethyl acetate, 2-	C8H12O3	10	NA	3.000	NA	NA								0.5		2.7		500	100	540
Ethyl (S)-(-)-lactate	C5H10O3	10.00	1.6	3.000	4	13														
Ethyl acetate	C4H8O2	10.01	1	3.634	5	ZR	2.00	400	200				400		1400			2000	400	1400
Ethyl acrylate	C5H8O2	10.30	1	2.000	3	ZR		15	5	62	21							300	25	100
Ethyl amine	C2H7N	8.86	1	1.000	1	ZR		6	2	11	3.8			10		18		600	10	18
Ethyl benzene	C8H10	8.76	0.51	0.540	0.52	0.52		125	100	552	441		125	100	545	435		800	100	435
Ethyl butyrate	C6H12O2	9.90	NA	0.950	NA	2														
Ethyl chloroformate	C3H5O2Cl	10.64	1.955	83.000	NA	ZR				1	4.5									
Ethyl cyanoacrylate	C6H7O2N	10	NA	1.500	NA	3		0.3		1.5										
Ethyl decanoate	C12H24O2	9.6	NA	1.800	NA	NA														
Ethyl formate	C3H6O2	10.61	1.9	29.837	ZR	ZR		150	100	462	308		100		300			1500	100	300
Ethyl hexanoate	C8H16O2	9.75	NA	2.600	NA	NA														
Ethyl hexanol, 2-	C8H18O	9.80	1	1.500	NA	ZR														
Ethyl hexyl acrylate, 2-	C11H20O2	9	0.5	1.000	1.2	ZR														
Ethyl mercaptan	C2H6S	9.29	1	0.695	ZR	ZR		2	0.5	5.2	1.3					0.5	1.3	500		
Ethyl octanoate	C10H20O2	9.70	NA	2.300	NA	NA														
Ethylene	C2H4	10.51	3	8.000	ZR	ZR	1.11													
Ethylene dinitrate	C2H4O6N2	10.8	NA	ZR	NA	NA		0	0	1	1				0					
Ethylene glycol	C2H6O2	10.16	NA	20.000	NA	ZR				104	52							ND		
Ethylene oxide	C2H4O	10.56	2	15.000	ZR	ZR			5		9.2		0.1		0.18	5	9	800	1	5
Ferrocene	C10H10Fe	6.88	NA	0.800	NA	NA				20	10				10			ND		15
Fluorine	F2	15.7	NA	ZR	NA	NA		1	1					0.1		0.2		25	0.1	0.2
Fluoroethane	C2H5F	11.78	NA	ZR	NA	ZR														
Fluoromethane	CH3F	12.47	NA	ZR	NA	ZR														
Formaldehyde	CH2O	10.87	0.6	ZR	ZR	ZR		2	2	2.5	2.5		0.016			0.1		20	0.75	
Formamide	CH3ON	10.20	NA	2.000	NA	ZR		30	20	56	37			10		15		ND		
Formic acid	CH2O2	11.05	5	ZR	ZR	ZR			5		9.6			5		9		30	5	9
Furfural	C5H4O2	9.21	0.8	1.387	1	ZR												100	5	20
Furfuryl alcohol	C5H6O2	9.90	NA	2.000	NA	NA		15	5	61	20		15	10	60	40		75	50	200
Gasoline vapors		9.90	NA	1.050	NA	ZR												ND		
Gasoline vapors		9.90	NA	0.800	1	ZR												ND		
Gasoline vapors 92 octane		9.90	0.47	0.800	1.3	2												ND		
Germane	GeH4	11.34	NA	10.000	NA	NA		0.6	0.2	1.9	0.64		0.2		0.6			ND		
Glutaraldehyde	C5H8O2	9.6	0.6	0.900	1.1	ZR		0.05	0.05	0.2	0.2			0.2		0.8		ND		
Halothane	CF3CHBrCl	11	0.6	ZR	ZR	ZR				10	82					2	16.2	ND		
Helium	He	24.59	NA	ZR	NA	NA														
Heptan-2-one	C7H14O	9.33	NA	0.730	NA	ZR		100	50	475	237		100		465			800	100	465
Heptan-3-one	C7H14O	9.02	NA	0.750	NA	ZR		100	35	475	166		50		230			1000	50	230
Heptane n-	C7H16	9.92	0.6	2.064	45	50	2.22		500				85		350	440	1800	750	500	2000
Hexachloroethane	C2Cl6	11.22	1	ZR	ZR	ZR			5		49			1		10		300	1	10
Hexafluoroethane	C2F6	13.60	ZR	ZR	ZR	ZR														
Hexamethyldisilazane, 1,1,1,3,3,3-	C6H19NSi2	8.60	0.19	1.000	1	1														
Hexamethyldisiloxane.	C6H18OSi2	9	NA	0.280	1	ZR														
Hexan-2-one	C6H12O	9.34	NA	0.800	NA	ZR					21			1		4		1600	100	410
Hexane n-	C6H14	10.13	0.5	4.200	10	ZR	2.22		20		72			50		180		1100	500	1800
Hexene, 1-	C6H12	9.44	NA	0.900	1.2	NA														
Hydrazine	H4N2	8.93	2.1	3.000	3	3		0.1	0.02	0.13	0.03									

Gas/Volatile (VOC)	Formula	IP	PID response factors				LEL	EH40 safety thresholds				NIOSH Safety Thresholds						OSHA			
			11.7	10.6	10.2	8.4		ppm STEL	ppm TWA	mg.m-3 STEL	mg.m-3 TWA	ppm	ppm TWA	mg.m-3	mg.m-3 TWA	ppm	mg.m-3	ppm	TWA ppm	TWA mg.m-3	
			ZR = No Response = Non Volatile at 20C NA = No DATA Available RED = Tested Blue = Calculated					Response Factor, methane = 1	STEL	TWA	STEL	TWA	ST	REL	ST	REL	Ceiling	Ceiling	IDLH	PEL	PEL
Hydrogen bromide	HBr	11.62	NA	ZR	NA	NA		3		10					3	10	30	3	10		
Hydrogen chloride	HCl	12.74	NA	ZR	NA	NA		5	1	8	2				5	7	50				
Hydrogen cyanide	HCN	13.60	ZR	ZR	ZR	ZR		10		11		4.7		5			50	10	11		
Hydrogen fluoride	HF	15.98	NA	ZR	NA	NA		3	1.8	2.5	1.5		3		2.5	6	5	30	3	2.5	
Hydrogen peroxide	H2O2	10.54	1	4.000	ZR	ZR		2	1	2.8	1.4		1		1.4		75	1	1.4		
Hydrogen sulfide	H2S	10.46	1.5	4.000	ZR	ZR		10	5	14	7				10	15	100				
Hydroquinone	C6H6O2	7.94	NA	0.800	NA	NA				4	2					2					
Hydroxypropyl acrylate 2-	C6H10O3	9	NA	1.500	NA	ZR			0.5		2.7		0.5		3					ND	
Iminodi(ethylamine) 2,2-	C4H13N3	9	NA	0.900	NA	ZR			1		4.3										
Iminodiethanol 2,2'-	C4H11NO2	9	NA	1.600	NA	ZR			3		13		3		15					ND	
Indene	C9H8	8.81	NA	0.460	NA	ZR		15	10	72	48		10		45					ND	
Iodine	I2	9.31	0.1	0.150	1	ZR	2.22	0.1		1.1			0.1		1			2	0.1	1	
Iodoform	CHI3	9.25	NA	1.500	NA	NA		1	0.6	16	9.8		0.6		10					ND	
Iodomethane	CH3I	9.54	0.26	0.400	1	ZR			2		12		2		10			100	5	28	
Isoamyl acetate	C7H14O2		NA	1.600	NA	NA		100	50	541	270		100		525			1000	100	525	
Isobutane	C4H10	10.57	1.2	8.000	ZR	ZR							800		1900					ND	
Isobutanol	C4H10O	10.12	1.5	3.500	19	ZR		75	50	231	154		50		150			1600	100	300	
Isobutyl acetate	C6H12O2	9.90	NA	2.260	NA	ZR		187	150	903	724		150		700			1300	150	700	
Isobutyl acrylate	C7H12O2	9.50	0.6	1.300	NA	NA															
Isobutylene	C4H8	9.24	1	1.000	2	ZR															
Isobutyraldehyde	C4H8O	9.00	NA	1.200	NA	ZR															
Isocyanates, all		10	NA	NV	NA	NA					0.07	0.02									
Isodecanol	C10H22O	9.80	1	0.900	NA	ZR															
Isoflurane	C3H2ClF5O	11.00	NA	ZR	NA	NA			50		383										
Isononanol	C9H20O	9.80	1	1.500	NA	ZR															
Isooctane	C8H18	9.86	1	1.085	1	ZR	2.22														
Isooctanol	C8H18O	9.80	1	1.700	NA	ZR															
Isopentane	C5H12	10.32	4	6.000	ZR	ZR															
Isophorone	C9H14O	9.07	NA	0.750	NA	ZR		5		29			4		23			200	25	140	
Isoprene	C5H8	8.85	0.6	0.698	1	0.69	1.82	100	250		100										
Isopropanol	C3H8O	10.17	2.7	4.352	40	500		500	400	1250	999										
Isopropyl acetate	C5H10O2	9.99	NA	2.202	5	ZR		200			849							1800	250	950	
Isopropyl chloroformate	C4H7O2Cl	10.20	NA	1.600	NA	NA			1		5.1										
Jet Fuel JP-4		9.00	0.42	0.750	1	ZR															
Jet Fuel JP-5		9.00	0.46	0.650	1	ZR															
Jet Fuel JP-8		9.00	0.32	0.650	1	ZR		15	30		15										
Kerosene		8	NA	0.830	NA	ZR									100					ND	
Ketene	C2H2O	9.617	NA	3.000	NA	ZR		1.5	0.5	2.6	0.87										
Liquefied petroleum gas		10.95	NA	ZR	NA	ZR		1250	1000	2180	1750		1000		1800			2000	1000	1800	
Maleic anhydride	C4H2O3	9.9	NA	2.000	NA	NA				3	1		0.25		1			2.5	0.25	1	
Mercaptoacetic acid	C2H4O2S	9.8	NA	1.000	NA	NA			1		3.8										
Mercury	Hg	10.44	NA	NV	NA	NA										0.1				0.05	
Mercury alkyls			NA	NV	NA	NA				0.03	0.01										
Mesitylene	C9H12	8.41	0.32	0.340	0.36	1		100	250	500	100										
Methacrylic acid	C4H6O2	10.15	NA	2.300	NA	ZR		40	20	143	72		20		70					ND	
Methacrylonitrile	C4H5N	10.34	NA	5.000	ZR	ZR			1		2.8		1		3					ND	
Methane	CH4	12.51	ZR	ZR	ZR	ZR	1.00														
Methanol	CH4O	10.85	2.5	200.000	ZR	ZR	1.11	250	200	333	266		250	200	325	260		6000	200	260	
Methoxyethanol, 2-	C3H8O2	9.60	1.4	2.700	4.8	ZR							0.1		0.3			200	25	80	
Methoxyethoxyethanol, 2-	C5H12O3	10	0.9	1.400	2.3	ZR															
Methoxymethylethoxy-2-propanol	C7H16O3	9.3	NA	1.300	NA	ZR			50		308										
Methoxypropan-2-ol	C4H10O2	9.4	1.1	3.000	1.5	ZR		150	100	560	375		150	100	540	360				ND	
Methoxypropyl acetate	C6H12O3	9.00	0.8	1.200	NA	ZR		100	50	548	274										
Methyl acetate	C3H6O2	10.27	1.4	5.186	1	ZR		250	200	770	616		250	200	760	610		3100	200	610	
Methyl acrylate	C4H6O2	10.25	1.2	3.400	3	ZR			10		36		10		35			250	10	35	
Methyl bromide	CH3Br	10.54	1.3	1.900	ZR	ZR		2	5		1							250	20	80	
Methyl cyanoacrylate	C5H5O2N	10.00	NA	5.000	NA	NA		0.3		1.4			4	2	16	8				ND	
Methyl ethyl ketone	C4H8O	9.51	1.1	0.766	0.86	0.86	2.00	300	200	899	600		300	200	885	590		3000	200	590	
Methyl ethyl ketone peroxides	C8H18O2		NA	0.800	NA	NA		0.2		1.5						0.2	1.5				
Methyl formate	C2H4O2	10.82	NA	ZR	ZR	ZR		150	100	374	250		150	100	375	350				4500	
Methyl isobutyl ketone	C6H12O	9.30	0.6	0.802	0.9	0.9		100	50	416	208		75	50	300	205		500	100	410	
Methyl isocyanate	C2H3NO	10.67	1.5	ZR	ZR	ZR							0.02		0.05			3	0.02	0.05	
Methyl isothiocyanate	C2H3NS	9.25	0.4	0.600	1	ZR															
Methyl mercaptan	CH4S	9.44	1	0.700	1	ZR			0.5		1					0.5	1	150			
Methyl methacrylate	C5H8O2	9.70	1.2	1.600	1	2.7		100	50	416	208		100		410					100	410
Methyl propyl ketone	C5H10O	9.39	0.79	0.790	1	ZR		250	200	895	716										
Methyl salicylate	C8H8O3	9.70	NA	1.200	NA	NA															
Methyl sulphide	C2H6S	8.69	0.46	0.500	0.5	0.49															
Methyl t-butyl ether	C5H12O	9.24	1	0.800	1	ZR		75	25	275	92										
Methyl-2-propen-1-ol, 2-	C4H8O	9.60	NA	1.057	NA	NA															
Methyl-2-pyrrolidinone, N-	C5H9NO	9.17	0.9	0.900	1	1		75	25	309	103										
Methyl-4,6-dinitrophenol, 2-	C7H6N2O5	9.1	NA	3.000	NA	NA				0.6	0.2										
Methyl-5-hepten-2-one, 6-	C8H14O	9.40	NA	0.800	NA	NA															
Methylamine	CH5N	8.97	1	1.400	1	ZR			10		13		10		12			100	10	12	
Methylbutan-1-ol, 3-	C5H12O	9.80	NA	3.400	NA	ZR		125	100	458	366		125	100	500	360		500	125	450	
Methylcyclohexane	C7H14	9.85	0.53	1.100	1.6	ZR		400	500	500	400		400		1600		</				

ION science INNOVATION	Ionisation Potential	PID response factors				LEL	EH40 safety thresholds				NIOSH Safety Thresholds						OSHA				
		Formula	IP	Response Factor, methane = 1				ppm STEL	ppm TWA	mg.m-3 STEL	mg.m-3 TWA	ppm	ppm TWA	mg.m-3	mg.m-3 TWA	ppm	mg.m-3	ppm	TWA ppm	TWA mg.m-3	
				11.7	10.6		10.2														8.4
Gas/Volatile (VOC)																					
Methylhydrazine	CH6N2	8	1.3	1.300	1.4	1.4					0.04		0.08						20		
Methyl-N-2,4, 6-tetraaminoaniline, N-	C7H5N5O8	9	NA	3.000	NA	NA			3	1.5											
Methylpent-3-en-2-one, 4-	C6H10O	9	NA	0.720	NA	ZR	25	15	102	61											
Methylpentan-2-ol, 4-	C6H14O	9.8	NA	2.800	NA	ZR	40	25	170	106	40	25	165	100				400	25	100	
Methylpentane-2,4-diol, 2-	C6H14O2	9	NA	4.000	NA	ZR	25	25	123	123					25	125		ND			
Methylpropan-2-ol, 2-	C4H10O	9.70	NA	3.500	NA	ZR	150	100	462	308	150	100	450	300				1600	100	300	
Methylstyrene	C9H10	8.2	1	0.530	1	1	150	100	736	491		100		480				400	100	480	
Mineral oil		9.00	NA	0.800	NA	NA															
Mineral spirits		9.00	0.39	0.800	1	ZR								350		1800				500	
Naphthalene	C10H8	8.14	0.4	0.440	0.45	0.45	15	10	80	53	15	10	75	50				250	10	50	
Nitric oxide	NO	9.27	2.8	8.000	1	ZR	35	25	44	31		25		30				100	25	30	
Nitroaniline 4-	C6H6N2O2	8.85	NA	0.800	NA	NA				6		0.5		3					1	6	
Nitrobenzene	C6H5NO2	9.92	1.6	1.700	2.6	ZR	2	1	10	5.1		1		5				200	1	5	
Nitroethane	C2H5NO2	10.88	3	ZR	ZR	ZR		100		312		100		310				1000	100	310	
Nitrogen dioxide	NO2	9.58	ZR	10.000	ZR	ZR	5	3	9.6	5.7		1		1.8					20		
Nitrogen trichloride	Cl3N	10.22	1	1.000	1	ZR															
Nitrogen trifluoride	NF3	12.97	NA	ZR	ZR	ZR	15	10	44	30		10		29				1000	10	29	
Nitromethane	CH3NO2	11.08	4	ZR	ZR	ZR	150	100	381	254								750	100	250	
Nitropropane, 1-	C3H7NO2	10.81	NA	ZR	ZR	ZR				93		25		90				1000	25	90	
Nitropropane, 2-	C3H7NO2	10.71	2.6	ZR	ZR	ZR													25	90	
Nitrous oxide	N2O	12.89	NA	ZR	NA	NA		100		183		25		46					ND		
Nonane, n-	C9H20	9.72	1	1.272	5	ZR			0.3	0.1		200		1050					ND		
Norbornadiene, 2,5-	C7H8	8	NA	0.600	NA	NA															
Octachloronaphthalene	C10Cl8	9	NA	1.000	NA	NA			0.3	0.1			0.3	0.1						0.1	
Octane, n-	C8H18	9.8	NA	1.586	13.2	13.2	2.50					75		350	385	1800	1000	500	2350		
Octene, 1-	C8H16	9.43	NA	0.697	NA	NA															
Oxalic acid	C2H2O4	11	NA	ZR	NA	NA			2	1			2	1						1	
Oxalonnitrile	C2N2	13.57	NA	ZR	NA	NA		10		22		10		20					ND		
Oxydiethanol 2,2-	C4H10O3		NA	4.000	NA	NA				101											
Oxygen	O2	12.07	NA	ZR	NA	NA															
Ozone	O3	12.52	NA	ZR	NA	NA	0.2		0.4						0.1	0.2		5	0.1	0.2	
Paraffin wax, fume			NA	1.000	NA	NA			6	2				2					ND		
Paraffins, normal		10	1	0.950	NA	ZR															
Pentacarbonyl iron	FeC5O5	9	NA	1.000	NA	NA		0.01		0.08	0.2	0.1	0.45	0.23					ND		
Pentachloroethane	C2HCl5	11.28	NA	ZR	ZR	ZR															
Pentachlorofluoroethane	C2Cl5F	11.8	NA	ZR	ZR	ZR															
Pentafluoroethane	C2HF5	12	NA	ZR	ZR	ZR															
Pentan-2-one	C5H10O	9.38	NA	0.790	1	ZR	250	200	895	716		150		530				1500	200	700	
Pentan-3-one	C5H10O	9.31	NA	0.800	NA	ZR	250	200	895	716		200		705				ND			
Pentandione, 2,4-	C5H8O2	8.85	NA	0.750	NA	NA															
Pentane, n-	C5H12	10.35	0.7	7.887	10	ZR	1.82	600	750	600		120		350	610	1800	1500	1000	2950		
Peracetic acid	C2H4O3		2.3	2.000	ZR	ZR															
Perchloryl fluoride	ClO3F	13.6	NA	ZR	NA	NA	6	3	26	13	6	3	28	14				100	3	13.5	
Perfluoropropane	C3F8	13.38	NA	ZR	NA	ZR															
Petroleum ether		10	1	0.900	NA	ZR															
Phenol	C6H6O	8.51	0.9	1.200	1	1		2				5		19	15.6	60	250	5	19		
Phenyl propene, 2-	C9H10	8.35	NA	0.440	NA	NA	100	50	491	246	100	50	485	240				700			
Phenyl-2,3-epoxypropyl ether	C9H10O2	8.6	NA	0.800	NA	ZR		1		6.2	10		60	1		6	100				
Phenylenediamine, p-	C6H8N2	6.89	NA	0.600	NA	NA				0.1				0.1						0.1	
Phosgene	COCl2	11.55	2.1	ZR	NA	NA	0.06	0.02	0.25	0.08		0.1		0.4	0.2	0.8	2	0.1	0.4		
Phosphine	PH3	9.96	1.4	2.000	ZR	ZR	0.3		0.42		1	0.3	1	0.4				50	0.3	0.4	
Picoline, 3-	C6H7N	9.04	1	0.900	1	ZR															
Pinene, alpha	C10H16	8.07	0.47	0.317	0.38	1.1															
Pinene, beta	C10H16	8.1	0.37	0.315	0.76	0.38															
Piperidine	C5H11N	8.03	NA	0.900	NA	NA		1		3.5											
Piperylene	C5H8	8.6	0.64	0.669	1	ZR															
Prop-2-yn-1-ol	C3H4O	9	NA	1.300	NA	NA	3	1	7	2.3		1		2					ND		
Propan-1-ol	C3H8O	10.2	1.7	4.800	10	ZR	250	200	625	500	250	200	625	500				800	200	500	
Propane	C3H8	11.07	1.8	ZR	ZR	ZR	1.67											2100	1000	1800	
Propane-1,2-diol, total	C3H8O2		NA	10.000	NA	NA		150		474											
Propene	C3H6	9.73	1	1.400	2	ZR															
Propionaldehyde	C3H6O	9.95	2	1.685	2	ZR															
Propionic acid	C3H6O2	10.24	NA	8.000	ZR	ZR	15	10	46	31	15	10	45	30					ND		
Propyl acetate, n-	C5H10O2	10.04	4	2.500	ZR	ZR	250	200	1060	849	250	200	1050	840				1700	200	840	
Propylene dinitrate	C3H6N2O6	11	NA	ZR	NA	NA	0.2	0.2	1.4	1.4											
Propylene oxide	C3H6O	10.22	2	7.000	1	ZR			5	12								400	100	240	
Propyleneimine	C3H7N	9	1	1.300	1.5	1.5												100	2	5	
Pyridine	C5H5N	9.25	0.7	0.750	0.8	ZR	10	5	33	16		5		15				1000	5	15	
Pyridylamine 2-	C5H6N2	9	NA	0.800	NA	ZR	2	0.5	7.8	2		0.5		2				5	0.5	2	
Silane	SiH4	11	NA	ZR	NA	NA	1	0.5	1.3	0.67		5		7					ND		
Sodium fluoroacetate	C2H2O2FNa	11	NA	ZR	NA	NA			0.15	0.05											
Styrene	C8H8	8.4	0.42	0.440	1	0.45	250	100	1080	430	100	50	425	215				700	100		
Sulphur dioxide	SO2	12.3	1.3	ZR	ZR	ZR	5	2	13	5.3	3	2	13	5				100	5	13	
Sulphur hexafluoride	SF6	19.3	NA	ZR	ZR	ZR	1250	1000	7590	6070		1000		6000				ND	1000	6000	
Sulphur tetrafluoride	SF4	12.63	NA	ZR	ZR	ZR	0.3	0.1	1.3	0.45	0.1		0.4						ND		
Sulphuric acid	H2SO4																				

		Ionisation Potential	PID response factors				LEL	EH40 safety thresholds				NIOSH Safety Thresholds						OSHA		
			IP	11.7	10.6	10.2		8.4	ppm STEL	ppm TWA	mg.m-3 STEL	mg.m-3 TWA	ppm	ppm TWA	mg.m-3	mg.m-3 TWA	ppm	mg.m-3	ppm	TWA ppm
Gas/Volatile (VOC)	Formula																			
Tetrabromoethane, 1,1,2,2-	C2H2Br4	10	NA	2.000	NA	NA														
Tetracarbonylnickel	NiC4O4	8.28	NA	1.000	NA	NA														
Tetrachloro-1,2-difluoroethane, 1,1,2,2-	C2Cl4F2	11.3	NA	ZR	ZR	ZR														
Tetrachloro-1-fluoroethane, 1,1,2,2-	C2HCl4F	11	NA	ZR	ZR	ZR														
Tetrachloro-2,2-difluoroethane, 1,1,1,2-	C2Cl4F2	11	NA	ZR	ZR	ZR														
Tetrachloro-2-fluoroethane, 1,1,1,2-	C2HCl4F	11	NA	ZR	ZR	ZR														
Tetrachloroethane, 1,1,1,2-	C2H2Cl4	11.1	0.6	ZR	ZR	ZR														
Tetrachloroethane, 1,1,2,2-	C2H2Cl4	11.1	0.2	ZR	ZR	ZR														
Tetrachloroethylene	C2Cl4	9.326	0.31	0.700	1	0.69														
Tetrachloronaphthalenes, all isomers	C10H4Cl4	8.5	NA	1.000	NA	NA														
Tetraethyl orthosilicate	C8H20O4Si	9.8	0.2	2.000	1	ZR														
Tetraethyllead	C8H20Pb	11.1	0.2	ZR	ZR	ZR														
Tetrafluoroethane, 1,1,1,2-	C2H2F4	11	ZR	ZR	ZR	ZR														
Tetrafluoroethane, 1,1,2,2-	C2H2F4	11	ZR	ZR	ZR	ZR														
Tetrafluoroethylene	C2F4	10.12	1	1.000	NA	ZR														
Tetrafluoromethane	CF4	15.3	ZR	ZR	ZR	ZR														
Tetrahydrofuran	C4H8O	9.41	1	1.553	1.9	ZR														
Tetramethyl orthosilicate	C4H12O4Si	11	NA	ZR	NA	NA														
Tetramethyl succinonitrile	C8H12N2		NA	1.000	NA	NA														
Therminol	C7H8		0.51	1.000	0.9	0.54														
Thionyl chloride	SOCl2	10.96	NA	ZR	NA	NA														
Toluene	C7H8	8.82	0.51	0.514	0.54	ZR	2.22													
Toluene-2,4-diisocyanate	C9H6N2O2	8.82	2	1.600	2	ZR														
Toluenesulphonyl chloride, p-	C7H7SO2Cl		NA	3.000	NA	NA														
Toluidine, o-	C7H9N	7.4	1	0.500	NA	ZR														
Tributyl phosphate	C12H27O4P		NA	5.000	NA	NA														
Tributylamine	C12H27N	7.4	NA	1.000	NA	NA														
Trichloro-1,1-difluoroethane, 1,2,2-	C2HCl3F2	11	NA	ZR	ZR	ZR														
Trichloro-1,2-difluoroethane, 1,1,2-	C2HCl3F2	11	NA	ZR	ZR	ZR														
Trichloro-2,2-difluoroethane, 1,1,1-	C2HCl3F2	11	NA	ZR	ZR	ZR														
Trichloro-2-fluoroethane, 1,1,2-	C2H2Cl3F	11	1	ZR	ZR	ZR														
Trichlorobenzene 1,2,4-	C6H3Cl3	9.04	NA	0.550	NA	NA														
Trichloroethane, 1,1,1-	C2H3Cl3	11	1	ZR	ZR	ZR														
Trichloroethane, 1,1,2-	C2H3Cl3	11	1	ZR	ZR	ZR														
Trichloroethylene	C2HCl3	9.45	0.43	0.650	0.62	ZR														
Trichlorofluoromethane	CCl3F	11.77	NA	ZR	ZR	ZR														
Trichloronitromethane	CCl3NO2	13	NA	ZR	NA	NA														
Trichlorophenoxyacetic acid, 2,4,5-	C8H5O3Cl3		NA	1.000	NA	NA														
Trichloropropane 1,2,3-	C3H5Cl3	11	NA	ZR	ZR	ZR														
Trichlorotrifluoroethane, 1,1,1-	C2Cl3F3	11.5	2	ZR	ZR	ZR														
Trichlorotrifluoroethane, 1,1,2-	C2Cl3F3	11.99	2	ZR	ZR	ZR														
Triethylamine	C6H15N	7.5	0.65	0.900	0.95	1.5														
Trifluoroethane, 1,1,1-	C2H3F3	12.9	34	ZR	ZR	ZR														
Trifluoroethane, 1,1,2-	C2H3F3	12.9	34	ZR	ZR	ZR														
Trifluoroethanol, 2,2,2-	C2H3F3O	13	34	ZR	NA	ZR														
Trifluoromethane	CHF3	13.86	NA	ZR	ZR	ZR														
Trimethylamine	C3H9N	7.82	0.3	0.500	1	0.36														
Trimethylbenzene mixtures	C9H12	8.41	0.3	0.340	0.36	1														
Trimethylbenzene, 1,3,5-	C9H12	8.39	0.32	0.340	0.36	1														
Trinitrotoluene 2,4,6-	C7H5N3O6	10.59	NA	ZR	NA	NA														
Turpentine	C10H16	8	1	0.600	1	1														
TVOC		10	1	1.000																
Undecane, n-	C11H24	9.56	1	0.920	1.2	ZR														
Vinyl acetate	C4H6O2	9.19	1	1.100	2	ZR														
Vinyl bromide	C2H3Br	9.8	NA	1.000	2	ZR														
Vinyl chloride	C2H3Cl	9.99	0.6	2.100	2	ZR														
Vinyl-2-pyrrolidinone, 1-	C6H9NO	9	0.92	0.900	1	ZR														
Xylene mixed isomers	C8H10	8.56	NA	0.430	NA	ZR														
Xylene, m-	C8H10	8.56	0.4	0.440	0.5	ZR														
Xylene, o-	C8H10	8.56	0.69	0.600	0.57	ZR														
Xylene, p-	C8H10	8.44	0.62	0.460	1	4														
Xylidine, all	C8H11N	7.5	NA	0.700	NA	ZR														
Xylidine, all	C8H11N	7.5	NA	0.700	NA	ZR														