EH40/2002 Tables 1 & 2								Safety Thresholds			
	Instrument viability				MW	eV	**10.600**	ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$
	Pho-check (10.6)	Gas-Check R	Gas-Check	Formula	Molecular Weight	Ionisation Potential		TWA	TWA	STEL	STEL
Click on red triangles for notes											
⟶											
Acetaldehyde	Y			C_2H_4O	44	10.23	4.861	20	37	50	92
Acetic Acid				$C_2H_4O_2$	60	10.66	36.153	10	25	15	37
Acetic Anhydride				$C_4H_6O_3$	102	10.14	NA	0.5	2.5	2	10
Acetone	Y		Y	C_3H_6O	58	9.69	0.715	500	1210	1500	3620
Acetonitrile				CH_3CN	41	12.2	NR	40	68	60	102
Acetylene				C_2H_2	26	11.4	NR				
Acrolein				C_3H_4O	56	10.22	4.000	0.1	0.23	0.3	0.7
Acrylaldehyde				C_3H_4O	56	10.22	4.000	0.1	0.23	0.3	0.7
Acrylic Acid	Y			$C_3H_4O_2$	72	10.6	2.749	10	30	20	60
Acrylonitrile				C_2H_3N	41	10.91	NR	2	4.4		
Allyl alcohol				C_3H_6O	58	9.63	2.074	2	4.8	4	9.7
Allyl chloride	Y		Y	C_3H_5Cl	77	10.05	4.500				
Ammonia	Y			H_3N	17	10.18	8.496	25	18	35	25
Ammonium chloride	Y		Y	NH_4Cl	53	10.1	NV		10		20
Ammonium sulphamate			Y	$N_2H_6SO_3$	114		NV		10		20
Amyl acetate	Y		Y	$C_7H_{14}O_2$	130	9.9	1.800				
Amyl alcohol	Y		Y	$C_5H_{12}O$	88	10.00	3.200				
Aniline				C_6H_7N	93	7.70	0.500	1	4		
Anisole	Y		Y	C_7H_8O	108	8.21	0.473				
Arsine				AsH_3	78	9.89	NA	0.05	0.16		
Asphalt, petroleum fumes	Y		Y		150	9	1.000		5		10
Benzaldehyde	Y		Y	C_7H_6O	106	9.49	0.858				
Benzene	Y			C_6H_6	78	9.24	0.500	3			
Benzenethiol				C_6H_5SH	110	8.32	0.700	0.5	2.3		
Benzonitrile	Y		Y	C_7H_5N	103	9.62	0.708				
Benzyl alcohol	Y		Y	C_7H_8O	108	8.26	1.250				
Benzyl butyl phthalate				$C_{19}H_{20}O_4$	312		NV		5		
Benzyl chloride				C_7H_7Cl	127	9.14	0.550	0.5	2.6	1.5	7.9
Benzyl formate	Y		Y	$C_8H_8O_2$	136	9.32	0.770				
Biphenyl				$C_{12}H_{10}$	154	8.23	0.400	0.2	1.3	0.6	3.8
Bis(2,3-epoxypropyl) ether				$C_6H_{10}O_3$	130	9	3.000	0.1	0.54		
Bis(2-ethylhexyl)phthalate				$C_{24}H_{38}O_4$	391		NV		5		10
Boron trifluoride			Y	BF_3	68	15.50	NR				
Bromine				Br_2	160	10.55	NA	0.1	0.66	0.3	2
Bromine pentafluoride				BrF_5	175	13.17	NR	0.1	0.73	0.3	2.2
Bromobenzene	Y		Y	C_6H_5Br	157	8.98	0.700				
Bromochloromethane				CH_2ClBr	129	10.77	NR	200	1080	250	1340
Bromoethane	Y			C_2H_5Br	109	10.29	5.000	200	906	250	1130
Bromoethyl methyl ether, 2-	Y		Y	C_3H_7OBr	139	10.00	2.500				
Bromoform		Y		$CHBr_3$	253	10.48	2.800	0.5	5.3		
Bromomethane				CH_3Br	95	10.54	1.900	5	1	2	
Bromopropane, 1-	Y		Y	C_3H_7Br	123	10.18	1.300				
Bromotrifluoromethane		Y	Y	CF_3Br	149	11.78	NR	1000	6190	1200	7430
Butadiene	Y		Y	C_4H_6	54	9.07	0.830				
Butadiene diepoxide, 1,3-	Y		Y	$C_4H_6O_2$	86	10.00	4.000				
Butane, n-	Y		Y	C_4H_{10}	58	10.63	46.290	600	1450	750	1810
Butanol 1-	Y			$C_4H_{10}O$	74	10.04	4.011	50	30	30	
Butanone, 2-	Y			C_4H_8O	72	9.51	0.766	200	600	300	899
Buten-3-ol, 1-				C_4H_8O	72		1.150				
Butene, 1-	Y		Y	C_4H_8	56	9.58	1.000				
Butoxyethanol, 2-	Y			$C_6H_{14}O_2$	118	10.00	1.100	25		50	
Butyl acetate n-	Y			$C_6H_{12}O_2$	116	10.00	2.418	150	724	200	966
Butyl acrylate n-				$C_7H_{12}O_2$	128	9.00	1.500	1	5	5	26
Butyl cellosolve	Y			$C_6H_{14}O_2$	118	10.00	NA	25		50	
Butyl lactate				$C_7H_{14}O_3$	146	9	NV	5	30		
Butyl mercaptan	Y		Y	$C_4H_{10}S$	90	9.15	0.540				
Butylamine, 2-				$C_4H_{11}N$	73		0.900				
Butylamine, n-	Y		Y	$C_4H_{11}N$	73	8.71	1.000			5	15
Camphene				$C_{10}H_{16}$	136		0.450				
Carbon dioxide			Y	CO_2	44	13.77	NV	5000	9150	15000	27400
Carbon disulphide	Y			CS_2	76	10.08	1.400	10	32		
Carbon monoxide				CO	28	14.01	NR	30	35	200	232
Carbon tetrabromide				CBr_4	332	10.31	3.000	0.1	1.4	0.3	4.1
Carbon tetrachloride				CCl_4	154	11.47	NR	2	13		
Carbonyl sulphide			Y	COS	60	11.18	NR				
Carvone, R				$C_{10}H_{14}O$	150		NV				
Chlorine				Cl_2	71	11.48	NR	0.5	1.5	1	2.9
Chlorine dioxide				ClO_2	67	10.36	1.000	0.1	0.28	0.3	0.84
Chlorine trifluoride			Y	ClF_3	92	13	NR			0.1	0.38
Chloro-1,1-difluoroethane, 1-			Y	$C_2H_3ClF_2$	100	12.00	NR				
Chloro-1,3-butadiene, 2-	Y			C_4H_5Cl	89	8.79	3.200	10	37		
Chloroacetaldehyde	Y		Y	C_2H_3OCl	78	10.61	NR			1	3.3
Chlorobenzene				C_6H_5Cl	113	9.07	0.450	1		3	
Chlorodifluoromethane		Y	Y	$CHClF_2$	86	12.20	NR	1000	3590		
Chloroethane			Y	C_2H_5Cl	65	10.97	NR	1000	2700	1250	3380
Chloroethanol 2-	Y		Y	C_2H_5ClO	81	10.61	10.000			1	3.4
Chloroethyl methyl ether, 2-	Y		Y	C_3H_7ClO	95	9.00	2.600				
Chloroform		Y		$CHCl_3$	119	11.42	NR	2	9.9		

EH40/2002 Tables 1 & 2								Safety Thresholds			
	Instrument viability				MW	eV	10.600	ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$
	Pho-check (10.6)	Gas-Check R	Gas-Check	Formula	Molecular Weight	Ionisation Potential		TWA	TWA	STEL	STEL
Chloromethane		Y		CH_3Cl	50	11.28	NR	50	105	100	210
Chloropentafluoroethane		Y	Y	C_2ClF_5	154	12.96	NR	1000	6420		
Chlorotoluene, o-	Y		Y	C_7H_7Cl	127	8.83	0.450				
Chlorotoluene, p-	Y		Y	C_7H_7Cl	127	8.69	0.500				
Citral				$C_{10}H_{16}O$	152		NV				
Citronellol							NV				
Cresols, all isomers				C_7H_8O	108	8.97	1.050	5	22		
Crotonaldehyde	Y		Y	C_4H_6O	70	9.73	1.000				
Cumene	Y			C_9H_{12}	120	8.75	0.588	25	125	50	250
Cyanamide			Y	CH_2N_2	42	10.65	NR		2		
Cyanogen bromide			Y	CNBr	106	11.84	NR		5		
Cyanogen chloride			Y	CNCl	61	12.34	NR			0.3	0.77
Cyclohexane	Y			C_6H_{12}	84	9.86	1.162	100	350	300	1050
Cyclohexanol	Y			$C_6H_{12}O$	100	10.00	2.906	50	208		
Cyclohexanone	Y			$C_6H_{10}O$	98	9.40	1.039	10		20	
Cyclohexene	Y		Y	C_6H_{10}	82	8.95	0.750				
Cyclohexylamine	Y			$C_6H_{13}N$	99	8.37	0.981	10	41		
Cyclopentane	Y		Y	C_5H_{10}	70	10.52	4.000				
Decane, n-	Y		Y	$C_{10}H_{22}$	142	9.65	1.043				
Diacetone alcohol			Y	$C_6H_{12}O_2$	116	n/a	0.800				
Diazinon (ISO)			Y	$C_{12}H_{21}N_2O_3$	304		NV		0.1		0.3
Dibenzoyl peroxide			Y	$C_{14}H_{10}O_4$	242		NV		5		
Diborane				B_2H_6	28	11.38	NR	0.1	0.12		
Diboron trioxide			Y	B_2O_3	70		NV		10		20
Dibromochloromethane	Y		Y	$CHBr_2Cl$	208	10.59	10.000				
Dibromodifluoromethane		Y		CF_2Br_2	210	11.07	NR	100	872	150	1310
Dibromoethane 1,2-				$C_2H_4Br_2$	188	10.37	2.000	0.5	3.9		
Dibutyl hydrogen phosphate				$HC_8H_{18}PO_4$	210		NV	1	8.7	2	17
Dibutyl phthalate			Y	$C_{16}H_{22}O_4$	278		NV		5		10
Dichloro-1,1,1-trifluoroethane		Y	Y	$C_2HCl_2F_3$	153	11.50	NR				
Dichloro-1-fluoroethane, 1,1-		Y	Y	$C_2H_3Cl_2F$	117	n/a	NR				
Dichloro-1-propene, 2,3-	Y		Y	$C_3H_4Cl_2$	111	10.00	1.400				
Dichloroacetylene	Y		Y	C_2Cl_2	95	9.9	NA			0.1	0.39
Dichlorobenzene o-	Y			$C_6H_4Cl_2$	147	9.08	0.500	25	153	50	306
Dichlorodifluoromethane		Y	Y	CCl_2F_2	121	11.75	NR	1000	5030	1250	6280
Dichloroethane 1,2-		Y		$C_2H_4Cl_2$	99	11.04	NR	5	21		
Dichloroethane, 1,1-		Y		$C_2H_4Cl_2$	99	11.06	NR	100			
Dichloroethene, 1,1-	Y		Y	$C_2H_2Cl_2$	97	9.79	0.950				
Dichloroethene, cis-1,2-	Y		Y	$C_2H_2Cl_2$	97	9.66	0.800				
Dichloroethene, trans-1,2-	Y		Y	$C_2H_2Cl_2$	97	9.65	0.700				
Dichloroethylene 1,2-	Y			$C_2H_2Cl_2$	97	9.65	0.750	200	806	250	1010
Dichlorofluoromethane		Y		$CHFCl_2$	103	12.39	NR	10	43		
Dichloromethane		Y		CH_2Cl_2	85	11.32	39.000	100	350	300	1060
Dichloropropane, 1,2-		Y	Y	$C_3H_6Cl_2$	113	10.87	NR				
Dicyclohexyl phthalate			Y	$C_{20}H_{26}O_4$	330		NV		5		
Dicyclopentadiene				$C_{10}H_{10}$	130	9	0.810	5	27		
Diesel Fuel	Y		Y			9	0.750				
Diethyl ether	Y			$C_4H_{10}O$	74	9.53	0.884	100	310	200	620
Diethyl phthalate			Y	$C_{12}H_{18}O_4$	226		NV		5		10
Diethyl sulphate				$C_4H_{10}SO_4$	154		NV	0.05	0.32		
Diethyl sulphide	Y		Y	$C_4H_{10}S$	90	8.43	0.550				
Diethylamine	Y			$C_4H_{11}N$	73	8.01	1.000	10	30	25	76
Diethylaminoethanol, 2-				$C_6H_{15}ON$	117		2.700	10	49		
Diethylaminopropylamine, 3-	Y		Y	$C_7H_{13}N_2$	125	9.00	1.000				
Diethylmaleate			Y	$C_8H_{12}O_4$	172	n/a	NV				
Dihydrogen selenide				H_2Se	81	9.89	NA	0.02		0.05	
Diisobutyl phthalate			Y	$C_{16}H_{22}O_4$	278		NV		5		
Diisobutylene			Y	C_8H_{14}	110		0.643				
Diisodecyl phthalate			Y	$C_{22}H_{48}O_4$	377		NV		5		
Diisooctyl phthalate			Y	$C_{24}H_{40}O_4$	393		NV		5		
Diisopropyl ether	Y			$C_6H_{14}O$	101	9.20	0.680	250	1060	310	1310
Diisopropylamine				$C_6H_{15}N$	101	7.73	0.700	5	21		
Diketene	Y		Y	$C_4H_4O_2$	84	9.60	2.200				
Dimethoxymethane	Y		Y	$C_3H_8O_2$	76	9.7	1.400	1000	3160	1250	3950
Dimethyl cyclohexane, 1,2-				C_8H_{16}	112		1.050				
Dimethyl disulphide	Y		Y	$C_2H_6S_2$	94	7.40	0.230				
Dimethyl ether	Y		Y	C_2H_6O	46	10.03	1.300	400	766	500	958
Dimethyl phthalate			Y	$C_{10}H_{14}O_4$	198		NV		5		10
Dimethyl sulphate				$C_2H_6O_4S$	126	n/a	NA	0.05	0.26		
Dimethyl sulphide	Y			C_2H_6S	62	8.69	0.500	100	10	50	
Dimethylacetamide N,N-	Y			C_4H_9NO	87	8.81	NA	10	36	20	72
Dimethylamine				C_2H_7N	45	8.23	1.400	2	3.8	6	11
Dimethylaminoethanol				$C_4H_{11}NO$	89	9	NA	2	7.4	6	22
Dimethylaniline, NN-				$C_8H_{11}N$	121	9	0.600	5	25	10	50
Dimethylethylamine, NN-	Y			$C_4H_{11}N$	73	9	0.800	10	30	15	46
Dimethylformamide	Y			C_3H_7NO	73	9.13	0.900	10	30	20	61
Dimethylheptan-4-one,2,6-	Y			$C_9H_{18}O$	142	9	0.800	25	148		
Dimethylhydrazine,1,1-	Y		Y	$C_2H_8N_2$	60	7.28	1.000				
Dinitrobenzene, all isomers				$C_6H_5N_2O_4$	169		NV	0.15	1	0.5	3.5
Dinonyl phthalate	Y		Y	$C_{26}H_{42}O_4$	419	9.19	NV		5		

EH40/2002 Tables 1 & 2								Safety Thresholds			
	Instrument viability				MW	eV	10.600	ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$
	Pho-check (10.6)	Gas-Check R	Gas-Check	Formula	Molecular Weight	Ionisation Potential		TWA	TWA	STEL	STEL
Dioxane 1,2-			Y	$C_4H_8O_2$	88		1.500				
Dioxane 1,4-				$C_4H_8O_2$	88		1.500	25	91	100	366
Diphenyl ether				$C_{12}H_{10}O$	170	9	0.800	1	7.1		
Diphenylamine	Y		Y	$C_{12}H_{11}N$	169	7.16	NV		10		20
Disulphur decafluoride				S_2F_{10}	254		NA	0.025	0.26	0.075	0.79
Disulphur dichloride			Y	S_2Cl_2	135		NA			1	5.6
Ditertbutyl-4, 4-thiodi-m-cresol, 6,6-			Y	$C_{22}H_{30}S_2O_2$	391		NV		10		20
Ditertiary-butyl-para-cresol			Y	$C_{11}H_{16}O$	164		NV		10		
Divinylbenzene	Y			$C_{10}H_{10}$	130	9.00	0.400	10	54		
Enflurane				$C_3H_3Cl_3F_3O$	218		NA	50	383		
Epichlorohydrin				C_3H_5ClO	93	10.20	8.000	0.5	1.9	1.5	5.8
Epoxypropyl isopropyl ether, 2,3-				$C_6H_{12}O_2$	116		1.100	50	241	75	363
Ethane-1,2-diol	Y		Y	$C_2H_6O_2$	62	10.16	20.000		52		104
Ethanethiol				C_2H_6S	62	9.29	0.695	0.5	1.3	2	5.2
Ethanol	Y		Y	C_2H_6O	46	10.43	8.720	1000	1920		
Ethanolamine	Y		Y	C_2H_7NO	61	10.47	3.000				
Ethoxyethanol, 2-	Y			$C_4H_{10}O_2$	90	9.6	29.837	10	37		
Ethyl (S)-(-)-lactate	Y		Y	$C_5H_{10}O_3$	118	10.00	3.000				
Ethyl acetate	Y			$C_4H_8O_2$	88	10.01	3.634	200		400	
Ethyl acrylate				$C_5H_8O_2$	100	10.30	2.000	5	21	15	62
Ethyl benzene	Y			C_8H_{10}	106	8.77	0.540	100	441	125	552
Ethyl butyrate			Y	$C_6H_{12}O_2$	116		0.950				
Ethyl chloroformate				C_3H_50Cl	122	10.64	1.955	1	4.5		
Ethyl cyanoacrylate			Y	$C_6H_7O_2N$	125		NA			0.3	1.5
Ethyl decanoate				$C_{12}H_{22}O_2$	198		NV				
Ethyl ether	Y		Y	$C_4H_{10}O$	74	10.61	0.900				
Ethyl formate	Y			$C_3H_6O_2$	74	10.61	29.837	100	308	150	462
Ethyl hexanoate				$C_8H_{14}O_2$	142		NV				
Ethyl hexyl acrylate, 2-	Y		Y	$C_{11}H_{20}O_2$	184	9.00	1.000				
Ethyl mercaptan				C_2H_6S	62	9.29	0.695	0.5	1.3	2	5.2
Ethyl octanoate				$C_{10}H_{20}O_2$	172		NV				
Ethyl sulphide	Y		Y	$C_4H_{10}S$	90	8.43	0.550				
Ethylamine				C_2H_7N	45	8.86	1.000	2	3.8	6	11
Ethylene (ethene)	Y		Y	C_2H_4	28	10.51	8.000				
Ethylene dichloride			Y	$C_2H_4Cl_2$	99	11.04	NR				
Ethylene dinitrate				$C_2H_4O_6N_2$	152		NV	0.2	1.3	0.2	1.3
Ethylene glycol			Y	$C_2H_6O_2$	152		20.000		10		
Ethylene oxide				C_2H_4O	44	10.57	15.000	5	9.2		
Ferrocene			Y	$C_{10}H_{20}Fe$	196		NA		10		20
Fluorine				F_2	38	15.7	NV	1		1	
Formaldehyde				CH_2O	30	10.87	NR	2	2.5	2	2.5
Formamide	Y			CH_3ON	45	10.16	NA	20	37	30	56
Formic acid				CH_2O_2	46	11.33	NR	5	9.6		
Furaldehyde, 2-				$C_5H_5O_2$	97	9.21	1.387				
Furfural	Y		Y	$C_5H_5O_2$	97	9.21	1.387				
Furfuryl alcohol				$C_5H_6O_2$	98		2.000	5	20	15	61
Gasoline vapors	Y		Y			9.00	1.050				
Gasoline vapors 92 octane			Y			n/a	0.800				
Germane				GeH_4	77	10.57	10.000	0.2	0.64	0.6	1.9
Glutaraldehyde				$C_5H_8O_2$	100	9	0.900	0.05	0.2	0.05	0.2
Glycerol, mist			Y	$C_3H_8O_3$	92		NV		10		
Glycerol, trinitrate				$C_3H_5O_{12}N_3$	275		NV	0.2	1.9	0.2	1.9
Halothane		Y		$CF_3CHBrCl$	197	11.00	NR	10	82		
Heptan-2-one	Y			$C_7H_{14}O$	114	9.28	0.730	50	237	100	475
Heptan-3-one	Y			$C_7H_{14}O$	114	9.18	0.750	35	166	100	475
Heptane n-	Y		Y	C_7H_{16}	100	9.92	2.064	500			
Hexachloroethane				C_2Cl_6	237	11.10	NR	5	49		
Hexamethyldisilazane, 1,1,1,3,3,3-.	Y		Y	$C_6H_{19}NSi_2$	161	8.6	NA				
Hexan-2-one				$C_6H_{12}O$	100	9.3	0.800	5	21		
Hexane n-	Y			C_6H_{14}	86	10.13	3.282	20	72		
Hexene, 1-			Y	C_6H_{12}	84		0.900				
Hydrazine				H_4N_2	32	8.10	3.000	0.02	0.03	0.1	0.13
Hydrazoic acid			Y	HN_3	43	10.72	NV			0.1	0.18
Hydrogen			Y	H_2	2	15.43	NR				
Hydrogen bromide			Y	HBr	81	11.66	NV			3	10
Hydrogen chloride				HCl	36	12.75	NV	1	2	5	8
Hydrogen cyanide			Y	HCN	27	13.60	NR			10	11
Hydrogen fluoride				HF	20	16.04	NR	1.8	1.5	3	2.5
Hydrogen peroxide				H_2O_2	34	10.54	NA	1	1.4	2	2.8
Hydrogen sulphide				H_2S	34	10.45	4.000	5	7	10	14
Hydroquinone	Y		Y	$C_6H_6O_2$	110	7.94	0.800		2		4
Hydroxy-4-methyl-pentan-2-one 4-				$C_6H_{12}O_2$	116	n/a	0.800	50	241	75	362
Hydroxypropyl acrylate 2-				$C_6H_{10}O_3$	130	9	NV	0.5	2.7		
Iminodi(ethylamine) 2,2-				$C_4H_{13}N_3$	103	9	0.900	1	4.3		
Iminodiethanol 2,2-				$C_4H_{11}NO_2$	105	9	1.600	3	13		
Indene	Y			C_8H_8	104	9	0.460	10	48	15	72
Iodine	Y		Y	I_2	254	9.40	0.150			0.1	1.1
Iodoform				CHI_3	394	9.25	1.500	0.6	9.8	1	16
Iodomethane				CH_3I	142	9.54	0.400	2	12		
Isoamyl acetate				$C_7H_{14}O_2$	130	n/a	1.600	50	270	100	541

EH40/2002 Tables 1 & 2								Safety Thresholds			
	Instrument viability				MW	eV	10.600	ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$
	Pho-check (10.6)	Gas-Check R	Gas-Check	Formula	Molecular Weight	Ionisation Potential		TWA	TWA	STEL	STEL
Isobutane	Y		Y	C_4H_{10}	58	10.57	8.000				
Isobutanol	Y			$C_4H_{10}O$	74	10.02	3.500	50	154	75	231
Isobutene (Isobutylene)	Y		Y	C_4H_8	56	9.24	1.000				
Isobutyl acetate	Y			$C_6H_{12}O_2$	116	9.90	2.260	150	724	187	903
Isobutyl acrylate			Y	$C_7H_{12}O_2$	128	n/a	1.300				
Isobutyraldehyde	Y		Y	C_4H_8O	72	9.00	1.200				
Isocyanates, all			Y				NA		0.02		0.07
Isoflurane				$C_3H_2ClF_5O$	184	n/a	NA	50	383		
Isooctane	Y		Y	C_8H_{18}	114	9.86	1.085				
Isooctyl alcohol	Y			$C_7H_{16}O$	116	9.00	1.500	50	271		
Isopentane	Y		Y	C_5H_{12}	72	10.32	6.000				
Isophorone	Y		Y	$C_9H_{14}O$	138	9.07	NV				
Isoprene	Y			C_5H_8	68	8.85	0.698	250	100	100	
Isopropanol	Y		Y	C_3H_8O	60	10.17	4.352	400	999	500	1250
Isopropyl acetate	Y		Y	$C_5H_{10}O_2$	102	9.99	2.202		849	200	
Isopropyl chloroformate				$C_4H_7O_2Cl$	123		1.600	1	5.1		
Isopropyl ether				$C_6H_{14}O$		9.20	0.680	250	1060	310	1310
Jet Fuel JP-4	Y		Y			9.00	0.750				
Jet Fuel JP-5	Y		Y			9.00	0.650				
Jet Fuel JP-8	Y					9.00	0.650	30	15	15	
Kerosene	Y		Y			9.00	0.830				
Ketene				C_2H_2O	42	9.617	3.000	0.5	0.87	1.5	2.6
Liquefied petroleum gas	Y		Y			9	NR	1000	1750	1250	2180
Maleic anhydride			Y	$C_4H_2O_3$	98		NA		1		3
Mercaptoacetic acid				$C_2H_4O_2S$	92		NA	1	3.8		
Mercury				Hg	201		NA				
Mercury alkyls			Y				NA		0.01		0.03
Mesitylene	Y			C_9H_{12}	120	8.41	0.340	250	100	100	500
Methacrylic acid	Y			$C_4H_6O_2$	86	10.15	2.300	20	72	40	143
Methacrylonitrile				C_4H_5N	67	10.34	NA	1	2.8		
Methane			Y	CH_4	16	12.51	NR				
Methanethiol				CH_4S	48	9.44	0.700	0.5	1		
Methanol				CH_4O	32	10.85	206.375	200	266	250	333
Methoxyethanol, 2-	Y		Y	$C_3H_8O_2$	76	10.10	2.700				
Methoxyethoxyethanol, 2-	Y		Y	$C_5H_{12}O_3$	120	10.00	1.400				
Methoxymethylethoxy- 2,propanol	Y			$C_6H_{14}O_3$	134	9	1.300	50	308		
Methoxypropan-2-ol	Y			$C_4H_{10}O_2$	90	9	3.000	100	375	150	560
Methoxypropylacetate	Y			$C_6H_{12}O_3$	132	9	NV	50	274	100	548
Methyl acetate	Y		b	$C_3H_6O_2$	74	10.27	5.186	200	616	250	770
Methyl acrylate	Y			$C_4H_6O_2$	86	9.90	3.400	10	36		
Methyl bromide				CH_3Br	95	10.54	1.900	5	1	2	
Methyl cellosolve	Y		Y	$C_3H_8O_2$	76	10.10	2.700				
Methyl chloride				CH_3Cl	50	11.28	NR	50	105	100	210
Methyl cyanoacrylate			Y	$C_5H_5O_2N$	111		NA			0.3	1.4
Methyl ether	Y		Y	C_2H_6O	46	10.03	1.300	400	766	500	958
Methyl ethyl ketone	Y			C_4H_8O	72	9.51	0.766	200	600	300	899
Methyl ethyl ketone peroxides			Y				NA			0.2	1.5
Methyl formate				$C_2H_4O_2$	60	10.83	NR	100	250	150	374
Methyl iodide				CH_3I	142	9.54	0.400	2	12		
Methyl isobutyl ketone	Y			$C_6H_{12}O$	100	9.30	0.802	50	208	100	416
Methyl isocyanate			Y	C_2H_3NO	57	10.67	NR				
Methyl isothiocyanate	Y		Y	C_2H_3NS	73	9.25	0.600				
Methyl mercaptan				CH_4S	48	9.44	0.700	0.5	1		
Methyl methacrylate	Y			$C_5H_8O_2$	100	9.70	1.600	50	208	100	416
Methyl propyl ketone	Y			$C_5H_{10}O$	86	9.38	0.790	200	716	250	895
Methyl salicylate			Y	$C_8H_8O_3$	152	n/a	NV				
Methyl sulphide	Y		Y	C_2H_6S	62	8.69	0.500				
Methyl t-butyl ether	Y			$C_5H_{12}O$	88	9.24	0.800	25	92	75	275
Methyl-2-propen-1-ol, 2-			Y	C_4H_8O	72		1.057				
Methyl-2-pyrrolidinone, N-	Y			C_5H_9NO	99	9.17	0.900	25	103	75	309
Methyl-2-pyrrolidone, 1-	Y			C_5H_9NO	99	9.17	0.900	25	103	75	309
Methyl-4,6-dinitrophenol, 2-			Y	$C_7H_6N_2O_5$	198		NV		0.2		0.6
Methyl-5-hepten-2-one, 6-				$C_8H_{14}O$	126		0.800				
Methylamine	Y			CH_5N	31	8.97	1.400	10	13		
Methylbutan-1-ol, 3-	Y			$C_5H_{12}O$	88	9.8	3.400	100	366	125	458
Methylcyclohexane	Y		Y	C_7H_{14}	98	9.64	1.100	500	400	400	500
Methylcyclohexanol	Y			$C_7H_{14}O$	114	9.8	2.400	50	237	75	356
Methylcyclohexanone 2-	Y			$C_7H_{12}O$	112	9	0.950	50	233	75	350
Methylene chloride				CH_2Cl_2	85	11.32	39.000	100	350	300	1060
Methylheptan-3-one, 5-				$C_8H_{16}O$	128		0.750	10		20	
Methylhexan-2-one, 5-	Y			$C_7H_{14}O$	114	9.28	0.750	20	95	100	475
Methylhydrazine	Y		Y	CH_6N_2	46	7.70	1.300				
Methyl-N-2,4, 6-tetranitroaniline, N-	Y		Y	$C_7H_5N_4O_8$	273	9	NV		1.5		3
Methylpent-3-en-2-one, 4-	Y			$C_6H_{10}O$	98	9	0.720	15	61	25	102
Methylpentan-2-ol, 4-	Y			$C_6H_{14}O$	102	9	2.800	25	106	40	170
Methylpentan-2-one, 4-	Y			$C_6H_{12}O$	100	9.3	0.802	50	208	100	416
Methylpentane-2,4-diol, 2-	Y			$C_6H_{14}O_2$	118	9	4.000	25	123	25	123
Methylpropan-1-ol, 2-	Y			$C_4H_{10}O$	74	10.02	3.500	50	154	75	231
Methylpropan-2-ol, 2-	Y			$C_4H_{10}O$	74	9.9	3.500	100	308	150	462
Methylstyrene	Y			C_9H_{10}	118	8.18	0.530	100	491	150	736

EH40/2002 Tables 1 & 2								Safety Thresholds			
	Instrument viability				MW	eV	10.600	ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$
	Pho-check (10.6)	Gas-Check R	Gas-Check	Formula	Molecular Weight	Ionisation Potential		TWA	TWA	STEL	STEL
Mineral oil							NV				
Mineral spirits	Y		Y			9.00	0.800				
Naphthalene	Y			$C_{10}H_8$	128	8.14	0.440	10	53	15	80
Nitric oxide	Y			NO	30	9.26	8.000	25	31	35	44
Nitroaniline 4-	Y		Y	$C_6H_6N_2O_2$	138	8.27	0.800		6		
Nitrobenzene				$C_6H_5NO_2$	123	9.81	1.700	1	5.1	2	10
Nitroethane				$C_2H_5NO_2$	75	10.88	NR	100	312		
Nitrogen dioxide				NO_2	46	9.59	NA	3	5.7	5	9.6
Nitrogen monoxide	Y			NO	30	9.26	8.000	25	31	35	44
Nitrogen trichloride	Y		Y	NCl_3	120	10.22	1.000				
Nitrogen trifluoride				NF_3	71	13	NR	10	30	15	44
Nitromethane				CH_3NO_2	61	11.02	NR	100	254	150	381
Nitropropane, 1-				$C_3H_7NO_2$	89	10.81	NR	25	93		
Nitropropane, 2-			Y	$C_3H_7NO_2$	89	10.71	NR				
Nitrous oxide				N_2O	44	12.89	NV	100	183		
Nonane, n-	Y		Y	C_9H_{20}	128	9.72	1.272		0.1		0.3
Norbornadiene, 2,5-				C_8H_{12}	108		NV				
Octachloronaphthalene			Y	$C_{10}Cl_8$	404		NV		0.1		0.3
Octane, n-	Y		Y	C_8H_{18}	114	9.8	1.586				
Octene, 1-			Y	C_8H_{16}	112		0.697				
Oxalic acid			Y	$C_2H_2O_4$	90		NV		1		2
Oxalonitrile				C_2N_2	52		NA	10	22		
Oxydiethanol 2,2-				$C_4H_{10}O_3$	106		4.000	23	101		
Ozone			Y	O_3	48	12.43	NV			0.2	0.4
Paraffin wax, fume			Y				NA		2		6
Pentacarbonyliron				FeC_5O_5	196		NA	0.01	0.08		
Pentachlorophenol			Y	C_6HCl_5O	266		NV		0.5		1.5
Pentan-2-one	Y			$C_5H_{10}O$	86	9.38	0.790	200	716	250	895
Pentan-3-one	Y			$C_5H_{10}O$	86	9.31	0.800	200	716	250	895
Pentandione, 2,4-				$C_5H_8O_2$	100	8.85	0.750				
Pentane, n-	Y		Y	C_5H_{12}	72	10.35	7.887	750	600	600	
Pentyl acetates	Y			$C_7H_{14}O_2$	130	9	1.700	50	270	100	541
Peracetic acid			Y	$C_2H_4O_3$	76	n/a	NR				
Perchloroethene	Y			C_2Cl_4	166	9.326	0.700	50	345	100	689
Perchloryl fluoride							NA	3	13	6	26
Petrol	Y		Y			9.00	0.800				
Petrol 92 octane	Y		Y			9	0.850				
PGME acetate			Y	$C_6H_{12}O_3$	132		1.200				
Phenol				C_6H_6O	94	8.51	1.200	2			
Phenyl-2,3-epoxypropyl ether				$C_9H_{10}O_2$	150	9	0.800	1	6.2		
Phenylenediamine, p-	Y		Y	$C_6H_8N_2$	108	6.87	0.600		0.1		
Phenylpropene, 2-	Y			C_9H_{10}	118	9	0.440	50	246	100	491
Phorate (ISO)			Y	$C_2H_4O_3$	76		NR		0.05		0.2
Phosgene				$COCl_2$	99		NA	0.02	0.08	0.06	0.25
Phosphine			Y	PH_3	34	9.869	NA			0.3	0.42
Picoline, 3-	Y		Y	C_6H_7N	93	9.04	0.900				
Picric acid	Y		Y	$C_6H_3N_3O_7$	229	9	NV		0.1		0.3
Pinene, alpha	Y		Y	$C_{10}H_{16}$	136	8.07	0.317				
Pinene, beta	Y		Y	$C_{10}H_{16}$	136	8	0.315				
Piperidine				$C_5H_{11}N$	85	9	NA	1	3.5		
Piperylene (1-3 Pentadiene)	Y		Y	C_5H_8	68	8.6	0.669				
Prop-2-yn-1-ol				C_3H_6O	58	9	N/A	1	2.3	3	7
Propan-1-ol	Y		Y	C_3H_8O	60	10.2	4.800	200	500	250	625
Propan-2-ol	Y		Y	C_3H_8O	60	10.17	4.352	400	999	500	1250
Propane			Y	C_3H_8	44	10.95	NR				
Propane-1,2-diol, total				$C_3H_8O_2$	76		10.000	150	474		
Propanol, n-				C_3H_8O	76	10.2	4.800	200	500	250	625
Propen-1-ol, 2-				C_3H_6O	58	9.63	2.074	2	4.8	4	9.7
Propene	Y		Y	C_3H_6	42	9.73	1.400				
Propionaldehyde	Y		Y	C_3H_6O	58	9.95	1.685				
Propionic acid	Y			$C_3H_6O_2$	74	10.53	8.000	10	31	15	46
Propranolol			Y	$C_{16}H_{20}O_2N$	258		NV		2		6
Propyl acetate, n-	Y			$C_5H_{10}O_2$	102	10.04	2.500	200	849	250	1060
Propylene dinitrate				$C_3H_6N_2O_4$	134		NA	0.2	1.4	0.2	1.4
Propylene glycol methyl ether			Y	$C_6H_{12}O_3$	132	n/a	1.600				
Propylene glycol methyl ether acetate			Y	$C_6H_{12}O_3$	132		1.200				
Propylene oxide				C_3H_6O	58	10.22	7.000	5	12		
Propyleneimine	Y		Y	C_3H_7N	57	9	1.300				
Pyridine				C_5H_5N	79	9.25	0.750	5	16	10	33
Pyridylamine 2-				$C_5H_7N_2$	95	9	0.800	0.5	2	2	7.8
Pyrocatechol				$C_6H_6O_2$	110	9	NA	5	23		
Resorcinol	Y			$C_6H_6O_2$	110	9	NA	10	46	20	92
Silane				SiH4	32		NA	0.5	0.67	1	1.3
Sodium fluoroacetate			Y	$C_2H_2O_2FN0$	77		NA		0.05		0.15
Styrene	Y			C_8H_8	104	8.43	0.440	100	430	250	1080
Sulfotep (ISO)			Y	SO_2	64		NA		0.1		
Sulphur dioxide				SO_2	64	12.32	NR	2	5.3	5	13
Sulphur hexafluoride			Y	SF_6	146	15.32	NR	1000	6070	1250	7590
Sulphur tetrafluoride				SF_4	108	12	NR	0.1	0.45	0.3	1.3
Sulphuric acid			Y	H_2SO_4	98		NA		1		

EH40/2002 Tables 1 & 2								Safety Thresholds			
	Instrument viability				MW	eV	10.600	ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$
	Pho-check (10.6)	Gas-Check R	Gas-Check	Formula	Molecular Weight	Ionisation Potential		TWA	TWA	STEL	STEL
Sulphuryl difluoride				SO_2F_2	102	13.04	NR	5	21	10	42
T, 2,4,5- (ISO)			Y				NA		10		20
Terphenyls			Y	$C_{18}H_{14}$	230		NV			0.5	4.8
Terpinolene			Y				0.467				
Tertbutanol			Y	$C_4H_{10}O$	74		2.626				
Tetrabromoethane 1,1,2,2				$C_2H_2Br_4$	346		2.000	0.5	7.2		
Tetracarbonylnickel			Y	NiC_4O_4	171		NA			0.1	2.4
Tetrachloro-2, 2-difluoroethane, 1,1,1,2		Y		$C_2Cl_4F_2$	204		NR	100	847	100	847
Tetrachloro-2, 2-difluoroethane, 1,1,2,2		Y		$C_2Cl_4F_2$	204	11.3	NR	100	847	100	847
Tetrachloroethane, 1,1,1,2-		Y	Y	$C_2H_2Cl_4$	168	11.1	NR				
Tetrachloroethane, 1,1,2,2-		Y	Y	$C_2H_2Cl_4$	168	11.1	NR				
Tetrachloroethylene	Y			C_2Cl_4	166	9.326	0.700	50	345	100	689
Tetrachloronaphthalenes, all isomers	Y		Y	$C_{12}H_6Cl_4$	292	9	NV		2		4
Tetraethyl orthosilicate	Y			$C_8H_{20}O_4Si$	208	9.8	NV	10	87	30	260
Tetraethyllead			Y	$C_8H_{20}Pb$	323	11.1	NR				450
Tetrafluoroethane, 1,1,1,2	#REF!	Y	#REF!	$C_2H_2F_4$	102		NR	1000	4240		
Tetrafluoromethane		Y	Y	CF_4	88	15.3	NR				
Tetrahydrofuran	Y			C_4H_8O	72	9.41	1.553	50	150	100	300
Tetramethyl orthosilicate				$C_4H_{12}O_4Si$	152		NV	1	6.3	5	32
Tetramethyl succinonitrile				$C_8H_{12}N_2$	136		NV	0.5	2.8	2	11
Therminol				C_7H_8	92	n/a	NA	5	1	2	1
Thionyl chloride			Y	$S0_2Cl_2$	135		NA			1	4.9
Toluene	Y			C_7H_8	92	8.82	0.514	50	191	150	574
Toluenesulphonyl chloride, p-			Y	$C_7H_7SO_2Cl$	191		NV				5
Tolylene-2,4-diisocyanate	Y		Y	$C_9H_6N_2O_2$	174	8.82	1.600				
Tributyl phosphate			Y	$C_{12}H_{27}O_4P$	266		NV		5		5
Tributylamine				$C_{12}H_{27}N$	185		1.000				
Trichloro bis ethane				C_2Cl_6	237	11.1	NR	5	49		
Trichlorobenzene 1,2,4-				$C_6H_3Cl_3$	181		0.550	1		5	
Trichloroethane, 1,1,1-		Y		$C_2H_3Cl_3$	133	11	NR	100	555	200	1110
Trichloroethane, 1,1,2-		Y	Y	$C_2H_3Cl_3$	133	11	NR				
Trichloroethene	Y			C_2HCl_3	131	9.47	0.650	100	550	150	820
Trichloroethylene	Y			C_2HCl_3	131	9.47	0.650	100	550	150	820
Trichlorofluoromethane			Y	CCl_3F	137	11.77	NR	1000	5710	1250	7140
Trichloromethane				$CHCl_3$	119	11.42	NR	2	9.9		
Trichloronitromethane				CCl_3NO_2	164		NV	0.1	0.68	0.3	2.1
Trichloropropane 1,2,3-		Y		$C_3H_5Cl_3$	147		NR	50	306	75	460
Trichlorotrifluoroethane, 1,1,2-		Y	Y	$C_2Cl_3F_3$	187	11.99	NR	1000	7790	1250	9740
Triethylamine				C_6H_9N	95	7.3	0.900	2	8	4	17
Trifluoroethane,1,1,2-		Y	Y	$C_2H_3F_3$	84	12.9	NR				
Trifluoroethanol, 2,2,2-		Y	Y	$C_2H_3F_3O$	100	n/a	NA				500
Trimethylamine	Y			C_3H_9N	59	7.82	0.500	10	25	15	37
Trimethylbenzene mixtures	Y			$C_{10}H_{16}$	136	8.41	0.340	25	125		
Trimethylbenzene, 1,3,5-	Y			C_9H_{12}	120	8.41	0.340	250	100	100	500
Trimethylcyclohex-2-enone 3,5,5-	Y		Y	$C_9H_{14}O$	138	9	0.750			5	29
Trinitrotoluene 2,4,6-			Y	$C_7H_5N_3O_6$	227		NV		0.5		
Tri-o-tolyl phosphate			Y	$C_{21}H_{21}PO_4$	368		NV		0.1		0.3
Triphenyl phosphate			Y	$C_{18}H_{15}PO_4$	326		NV		3		6
Turpentine	Y			$C_{10}H_{16}$	136	8	0.600	100	566	150	850
Undecane, n-	Y		Y	$C_{11}H_{24}$	156	9.56	0.920				
Vinyl acetate	Y			$C_4H_6O_2$	86	9.19	1.100	10	36	20	72
Vinyl bromide	Y		Y	C_2H_3Br	107	9.8	1.000				
Vinyl chloride	Y			C_2H_3Cl	62	9.99	2.100	7			
Vinyl-2-pyrrolidinone, 1-			Y	C_6H_9NO	111	n/a	0.900				
Vinylidene chloride	Y			$C_2H_2Cl_2$	97	9.79	0.950	10	40		
VOC	Y					9	1.000	100	10	50	5
Xylene mixed isomers	Y			C_8H_8	104	8.56	0.430	50	220	100	441
Xylene, m-	Y			C_8H_{10}	106	8.56	0.440	50	220	100	441
Xylene, o-	Y			C_8H_{10}	106	8.56	0.600	50	220	100	441
Xylene, p-	Y			C_8H_{10}	106	8.44	0.460	50	220	100	441
Xylidine, all				$C_8H_{11}N$	121	9	0.700	2	10	10	50