

GDS PID VOC Gas Response List

Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Acetaldehyde	C2H4O	75-07-0	10.23	1.5	3.4	ZR	ZR
Acetamide	C2H5NO	60-35-5	9.69		2		
Acetic acid	C2H4O2	64-17-7	10.66	2.6	36.2	ZR	ZR
Acetic anhydride	C4H6O3	108-24-7	10.14	2	4	ZR	ZR
Acetoin	C4H8O2	513-86-0	~9.8		1		
Acetone	C3H6O	67-64-1	9.69	1.4	0.7	1.2	1.2
Acetone cyanohydrin	C4H7NO	75-86-5	11.09	1	ZR	ZR	ZR
Acetonitrile	CH3CN	75-05-8	12.2	100 ?	ZR	ZR	ZR
Acetophenone	C8H8O	98-86-2	9.29		0.6		
Acetyl bromide	C2H3BrO	506-96-7	10.24		3		
Acetylene	C2H2	74-86-2	11.4	2	ZR	ZR	ZR
Acetylglycine, N-	C4H76NO3	543-24-8	9.4		2		
Acrolein	C3H4O	107-02-8	10.22	1.2	3.2		3
Acrylic Acid	C3H4O2	79-10-7	10.6	2	2.7		ZR
Acrylonitrile	C3H3N	107-13-1	10.91	1.2	ZR	ZR	ZR
Alkanes, n-, C6+	CnH2n+2	N/A	~10		1		
Allyl alcohol	C3H6O	107-18-6	9.63	1.7	2.1		ZR
Allyl bromide	C3H5Br	106-95-6	~10		3		
Allyl chloride	C3H5Cl	107-05-1	10.05	0.7	4.5		ZR
Allyl glycidyl ether	C6H10O2	106-92-3	~10		0.8		
Allyl propyl disulfide	C6H12S2	2179-59-1	~8.5		0.4		
Ammonia	NH3	7664-41-7	10.18	5.7	8.5		ZR
Amyl acetate	C7H14O2	628-63-7	9.9	1	1.8	2	ZR
amyl acetate, sec-	C9H14O2	626-38-0	~9.9		2		
Amyl alcohol	C5H12O	71-41-0	10	4	3.5		ZR
Amyl alcohol, tert-	C5H12O	75-85-4	9.8		1.5		
Amyl methyl ether, tert-	C6H14O	994-05-8	~9		0.8		
Anethole	C10H12O	104-46-1	~9		0.4		
Aniline	C6H7N	62-53-3	7.7		0.48	0.8	0.38
Anisole	C7H8O	100-66-3	8.21	1	0.5		1
Anisyl aldehyde	C8H8O2	123-11-5	~9		0.4		
Argon	Ar	7440-37-1	15.76	ZR	ZR	ZR	ZR
Arsine	AsH3	7784-42-1	9.89	3	2.5		ZR
Asphalt, petroleum fumes		8052-42-4	~9	NA	1		NA
Benzaldehyde	C7H6O	100-52-7	9.49	1	0.9	1.5	ZR
Benzene	C6H6	71-43-2	9.24378	0.4	0.46	0.59	16
Benzene thiol	C6H5SH	108-98-5	8.32	NA	0.7	0.8	NA
Benzoic acid	C7H6O2	65-85-0	9.3		0.7		
Benzonitrile	C7H5N	100-47-0	9.62	2	0.7	0.8	ZR
benzoquinone, o-	C6H4O2	583-63-1	9.3		1		
benzoquinone, p-	C6H4O2	106-51-4	10		1		
benzoyl bromide	C7H6BrO	618-32-6	9.65		2		
Benzyl 2-phenylacetate	C15H14O2	102-16-9	~9		0.5		
Benzyl acetate	C9H10O2	140-11-4	~9		0.6		
Benzyl alcohol	C7H8O	100-51-6	8.26	0.9	1.3	1.1	1.4
Benzyl chloride	C7H7Cl	100-44-7	9.14	0.28	0.48		26.6
Benzyl formate	C8H8O2	104-57-4	9.32	0.66	0.8		ZR
Benzyl isobutyrate	C11H14O2	103-28-6	~9		0.5		
benzyl nitrile	C8H7N	140-29-4	9.39		1		
Benzyl propionate	C10H12O2	122-63-4	~9		0.5		
Benzylamine	C9H9N	100-46-9	7.56		0.6		
Biphenyl	C12H10	92-52-4	8.23	NA	0.4	0.6	NA
Borneol	C10H18O	507-70-0	~9		0.8		
Boron trifluoride	BF3	7637 07 2	15.5	ZR	ZR	ZR	ZR
Bromine	Br2	7726-95-6	10.55	0.74	15		ZR
Bromine pentafluoride	BrF5	7789-30-2	13.17	ZR	ZR	ZR	ZR
Bromo-2,2-dimethylpropane, 1-	C5H11Br	630-17-1	10.04		2		
Bromo-2-chloroethane, 1-	C2H4Cl	107-04-0	10.57		8		
Bromo-2-methylpentane, 1-	C6H13Br	25346-33-2	10.09		2		
Bromoacetone	C3H5BrO	598-31-2	9.73		1		
Bromoacetylene	C2HBr	593-61-3	10.31		4		
Bromobenzene	C6H5Br	108-86-1	8.98	0.2	0.3	0.3	ZR
Bromobutane, 1-	C4H9Br	105-65-9	10.13		1		
Bromobutane, 2-	C4H9Br	78-76-2	10.01		1.5		
Bromochloromethane	CH2ClBr	74-97-5	10.77	NA	ZR	ZR	ZR
Bromocyclohexane	C6H11Br	108-85-0	9.87		3		
Bromoethane	C2H5Br	74-96-4	10.29	NA	5		ZR
Bromoethanol, 2-	C2H4BrO	540-51-2	10		2		
Bromoethyl methyl ether, 2-	C3H7OBr	6482-24-2	10	2	2.5		ZR
Bromofluoromethane	CH2FBr	373-52-4	~11		ZR	ZR	ZR
Bromoform	CHBr3	75-25-2	10.48	0.5	2.8		ZR
Bromopentane, 1-	C5H11Br	203-776-0	10.1		2		
Bromopropane, 1-	C3H7Br	106-94-5	10.18	0.6	1.3		ZR
bromopyridine, 3-	C5H4BrN	636-55-1	9.75		2		
bromopyridine, 4-	C5H4BrN	1120-87-2	9.94		2		
Bromotrifluoromethane	CF3Br	75-63-8	11.78	NA	ZR	ZR	ZR
Bromotrimethylsilane	C3H9BrSi	2857-97-8	10		2		

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But-2-ynal	C4H4O	1119-19-3	10.2		3		
But-3-ynal	C4H4O	52844-23-2	9.85		1.5		
Butadiene diepoxide, 1,3-	C4H6O2	1464-53-5	10	1.2	4		ZR
Butadiene, 1,3-	C4H6	106-99-0	9.07	1.1	0.8	0.8	ZR
Butane, n-	C4H10	106-97-8	10.63	2	44		ZR
Butanedione, 2,3-	C4H6O2	431-03-8	9.56		0.4		
Butanoic acid	C4H8O2	107-92-6	10.17		5		
Butanol, 1-	C4H10O	71-36-3	10.04	1.4	4		ZR
Buten-3-ol, 1-	C4H8O	598-32-3	9.5	NA	1.2		NA
Butene nitrile, 3-	C4H5N	109-75-1	10.2		~3		
Butene, 1-	C4H8	106-98-9	9.58	NA	1.5		ZR
Butene, 2-	C4H8	107-07-7	9.1	NA	1.3		ZR
Butene, cis-2-	C4H8	590-18-1	9.13		1.3		
Butene, trans-2-	C4H8	624-64-6	9.13		1.3		
butenoic acid, 3-	C4H6O2	107-93-7	9.75		2		
Butoxyethanol, 2-	C6H14O2	111-76-2	8.68	0.62	1.1		1.8
Butoxyethylacetate, 2-	C8H16O3	112-07-2	~9.8		3		
Butyl acetate	C6H12O2	123-86-4	9.91	NA	2.4		ZR
Butyl acetate, sec-	C6H12O2	105-46-4	9.91		2.4		
Butyl acetate, tert-	C6H12O2	540-88-5	~9.7		2		
Butyl acrylate	C7H12O2	141-32-2	~9.6	0.6	1.5		ZR
Butyl alcohol, sec-	C4H10O	78-92-2	10.1		3		
Butyl benzene, tert-	C10H16	98-06-6	8.69		0.4		
Butyl butyrate	C8H16O2	109-21-7	~9.7		1.8		
Butyl chloride	C4H9Cl	109-69-3	10.67	1.5	ZR	ZR	ZR
Butyl chloroformate	C5H9O2Cl	592-34-7	~10.4		3.2		
Butyl cyclohexan-1-ol, 4- tert-	C10H20O	98-52-2	~8.8		1.4		
Butyl cyclohexyl acetate, 2- tert-	C12H22O2	88-41-5	~10		0.8		
Butyl ether, n-	C8H18O	142-96-1	9.28		0.7		
Butyl glycidyl ether	C7H14O2	8/6/2426	~10		2		
Butyl iodide	C4H9I	542-69-8	9.23		1		
Butyl isocyanate	C5H9NO	111-36-4	10.14		2.5		
Butyl lactate	C7H14O3	138-22-7	9.8	NA	2.5		NA
Butyl mercaptan	C4H10S	109-79-5	9.15	2	0.5		ZR
butyl mercaptan, tert-	C4H9S	75-66-1	9.03		0.4		
Butyl methacrylate	C8H14O2	97-88-1	~9.5		1		
Butyl propionate, n-	C7H14O2	590-02-1	~9.7		1.8		
Butylamine, n-	C4H11N	109-73-9	8.71	0.7	1		1.1
Butylamine, sec-	C4H11N	513-49-5	8.7	NA	0.9		NA
Butylamine, tert-	C4H11N	75-64-9	8.64		0.9		
Butylene carbonate, 1,2-	C5H8O3	224-651-7	~10.4		2		
Butylphenol, o-sec-	C10H14O	89-72-5	7.8		0.9		
Butyn-1-ol, 2-	C4H6O	764-01-2	9.78		1.5		
Butyn-2-one	C4H4O	1423-60-5	10.17		3		
Butyraldehyde	C4H8O	123-72-8	9.86		1.6		
Butyrolactone, gamma-	C4H6O2	96-48-0	10.26		15		
Butyronitrile	C4H7N	109-74-0	11.67	2	ZR	ZR	
Butyryl chloride	C4H9OCl	141-75-3	~10.4		3		
Camphene	C10H16	565-00-4	8.86	NA	0.5	0.4	NA
Camphor	C10H16O	76-22-2	8.76		0.4		
Carbon dioxide	CO2	124-38-9	13.77	ZR	ZR	ZR	NA
Carbon disulfide	CS2	75-15-0	10.08	0.3	1.4	1.3	ZR
Carbon monoxide	CO	630-08-0	14.01	ZR	ZR	ZR	ZR
carbon suboxide	C3O2	504-64-3	10.6		10		
Carbon tetrabromide	CBr4	558-13-4	10.31	NA	3		NA
Carbon tetrachloride	CCl4	56-23-5	11.47	1.7	ZR	ZR	ZR
Carbonyl fluoride	COF2	353-50-4	13.02	NR	NR	ZR	ZR
Carbonyl sulfide	COS	463-58-1	11.18	0.4	ZR	ZR	ZR
Carene	C10H16	13466-78-9	8.4		0.5		
Carvone, R-	C10H14O	6485-40-1	9.77	NA	1	0.9	NA
Caryophyllene	C15H24	13877-93-5	~9		0.4		
Chlorine	Cl2	7782-50-5	11.48	1	ZR	ZR	ZR
Chlorine dioxide	ClO2	10049-04-4	10.36	2	1	2	ZR
Chlorine trifluoride	ClF3	7790-91-2	12.65	NA	ZR	ZR	ZR
Chloro-1,1,1,2-tetrafluoroethane, 2-	C2HClF4	2837-89-0	~12	ZR	ZR	ZR	ZR
Chloro-1,1,1-trifluoroethane, 2-	C2H2ClF3	75-88-7	~12	ZR	ZR	ZR	ZR
Chloro-1,1,2,2-tetrafluoroethane, 1-	C2HClF4	354-25-6	~12	ZR	ZR	ZR	ZR
Chloro-1,1,2-trifluoroethane, 1-	C2H2ClF3	421-04-5	~12	ZR	ZR	ZR	ZR
Chloro-1,1-difluoroethane, 1-	C2H3ClF2	75-68-3	11.98	ZR	ZR	ZR	ZR
Chloro-1,1-difluoroethane, 2-	C2H3ClF2	338-65-8	~11.9	ZR	ZR	ZR	ZR
Chloro-1,1-difluoroethene, 2-	C2HClF2	359-10-4	9.8		1.5		
Chloro-1,2,2-trifluoroethane, 1-	C2H2ClF3	431-07-2	~12	ZR	ZR	ZR	ZR
Chloro-1-fluoroethane, 1-	C2H4ClF	1615-75-4	~11.7	1	ZR	ZR	ZR
Chloro-2-fluoroethane, 1-	C2H4ClF	762-50-5	~11.7	1	ZR	ZR	ZR
Chloro-2-propanone, 1-	C3H5ClO	78-05-5	9.92		1		
Chloroacetaldehyde	C2H3OCl	107-20-0	10.16	NA	3		ZR
Chlorobenzene	C6H5Cl	108-90-7	9.07	0.31	0.36	0.3	0.4

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				11.7	10.6	10.0	9.8
Chlorobutane, 1-	C4H9Cl	109-69-6	10.64		10		
Chlorobutane, 2-	C4H9Cl	78-86-4	10.57		8		
Chlorocyclohexane	C6H11Cl	542-18-7	10.1		4		
Chlorodifluoromethane	CHClF2	75-45-6	12.45	ZR	ZR	ZR	ZR
Chloroethane	C2H5Cl	75-00-3	10.97	1.1	ZR	ZR	ZR
Chloroethanol, 2-	C2H5ClO	107-07-3	10.5	1	10		ZR
Chloroethyl methyl ether, 2-	C3H7ClO	627-42-9	10.25	NA	2.6		NA
Chlorofluoromethane	CH2ClF	593-70-4	11.71	NA	ZR	ZR	ZR
Chloroform	CHCl3	67-66-3	11.42	3.5	ZR	ZR	ZR
Chloromethane	CH3Cl	74-87-3	11.28	0.74	ZR	ZR	ZR
Chloromethoxyethane	C3H7ClO	3188-13-4	10.3		4		
Chloromide	NH2Cl	10599-90-3	9.85		2		
Chloropentafluoroethane	C2ClF5	76-15-3	12.96	ZR	ZR	ZR	ZR
Chloroprene	C4H5Cl	126-99-8	8.79		1.3		
Chloropyridine, 2-	C5H4ClN	109-09-1	9		1		
Chlorostyrene, o-	C8H7Cl	2039-87-4	-8.5		0.4		
Chlorotoluene, m-	C7H7Cl	108-41-8	8.7		0.5		
Chlorotoluene, o-	C7H7Cl	95-49-8	8.83	0.6	0.5		1
Chlorotoluene, p-	C7H7Cl	108-41-8	8.69	0.24	0.39	0.3	NR
Chlorotrifluoroethylene	C2ClF3	79-38-9	9.81	1	1		ZR
Chlorotrifluoromethane	CClF3	75-72-9	12.6	NA	ZR	ZR	ZR
Cinnamic acetate	C11H12O2	21040-45-9	-9		0.4		
Cinnamic alcohol	C9H10O	203-212-3	8.1		0.4		
Cinnamic aldehyde	C8H8O	104-55-2	-9		0.4		
Citral	C10H16O	5392-40-5	-8.7	NA	1		NA
Citronellal	C10H18O	106-23-0	-9		0.9		
Citronellol	C10H20O	26489-01-0	-8.5	NA	1		NA
Citronellol acetate	C12H22O2	150-84-5	-9		1.5		
Citronellol formate	C11H20O2	105-85-1	-9		1.5		
Citronellyl isobutyrate	C14H26O2	97-89-2	-9		0.9		
Coumarin	C9H6O2	91-64-5	-9		0.4		
Cresol, m-	C7H8O	108-39-4	8.97	0.8	2.2	1.5	1.3
Cresol, o-	C7H8O	95-48-7	8.97	NA	1.1	1.5	ZR
Cresol, p-	C7H8O	106-44-5	8.97	NA	1.1	1.5	ZR
Cresyl acetate, p-	C9H10O	140-39-6	8.6		1		
Cresyl ethyl ether, p-	C9H12O	622-60-6	-9		0.8		
Cresyl methyl ether	C8H10O	104-93-8	-9		0.8		
Crotonaldehyde	C4H6O	4170-30-3	9.73	1	1		1.5
Cumene	C9H12	98-82-8	8.75	0.19	0.32	0.24	0.33
Cyanogen bromide	CNBr	506-68-3	11.84	ZR	ZR	ZR	ZR
Cyanogen chloride	CNCl	506-77-4	12.49	ZR	ZR	ZR	ZR
cycloalkanes	N/A	N/A	-10		1.5		
cyclobutanone	C6H6O	214-745-6	9.35		1.2		
cyclobutene	C4H6	833-35-5	9.43		3		
Cycloheptane	C7H14	291-64-5	9.82		1.1		
Cyclohex-2-enedione, 1,4-	C6H6O2	4505-38-8	9.77		1		
Cyclohexane	C6H12	110-82-7	9.98		1.2		
Cyclohexanol	C6H12O	108-93-0	10	1.1	2.9		ZR
Cyclohexanone	C6H10O	108-94-1	9.16	0.7	1.1	1.1	ZR
Cyclohexanthiol	C6H14S	1569-69-3	-9		0.5		
Cyclohexene	C6H10	110-83-8	8.95	1	0.8	0.7	ZR
Cyclohexyl acetate	C8H14O2	622-45-7	-9.5		1.2		
Cyclohexylamine	C6H13N	108-91-8	8.37	1	1	0.9	1
Cyclooctadiene	C8H12	29965-97-7	-9.5		1		
Cyclopentadiene	C5H6	542-92-7	8.56		0.8		
Cyclopentane	C5H10	287-92-3	10.52	0.6	4		ZR
cyclopentanone	C5H8O	120-92-3	9.26		0.7		
Cyclopentene	C5H8	142-29-0	9.01		1.5	140	
Cyclopentene-1,3-dione, 4-	C5H4O2	930-60-9	9.6		1		
Cymene, p-	C10H14	99-87-6	8.29		0.35		
Decahydronaphthalene	C10H18	91-17-8	9.14		0.9		
Decanal	C10H20O	112-31-2	-9		0.9		
Decane	C10H24	124-18-5	9.65	0.22	0.9	0.9	1.1
Decyne, 1-	C10H18	764-93-2	9.91		1.3		
Desfluorane	C3H2F6O	57041-67-5	-11	2	ZR	ZR	ZR
Deuterium oxide	D2O	7789-20-0	13.6	ZR	ZR	ZR	ZR
Diacetone alcohol	C6H12O2	123-42-2	-9.6	NA	0.8		NA
Diazine, 1,2-	C4H4N2	289-80-5	9.65		3		
Diazine, 1,3-	C4H4N2	289-95-2	9.33		3		
Diborane	B2H6	19287-45-7	11.38	NA	ZR	ZR	ZR
Dibromoacetylene	C2Br2	623-61-3	9.65		1.5		
Dibromochloromethane	CHBr2Cl	124-48-1	10.59	0.7	10		ZR
Dibromocyclohexane, 1,2-	C6H10Br2	5401-62-7	10.02		3		
Dibromocyclopentane	C5H8Br2	33547-17-0	10.06		3		
Dibromodichloromethane	CBr2Cl2	594-18-3	10.4		4		
Dibromodifluoromethane	CF2Br2	75-61-6	11.07	NA	ZR	ZR	ZR
Dibromoethane, 1,2-	C2H4Br2	106-93-4	10.35	0.6	2		ZR

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Dibromoethene, 1,1-	C2H2Br2	593-92-0	9.78		1.5		
Dibromoethene, 1,2-	C2H2Br2	540-49-8	9.63		1.5		
Dibromomethane	CH2Br2	74-95-3	10.41		1.2		
Dibromotetrafluoroethane, 1,2-	C2F4Br2	124-73-2	11.1	NA	ZR	ZR	ZR
Dichloro-1,1,1-trifluoroethane, 2,2-	C2HCl2F3	306-83-2	11.5	NA	ZR	ZR	ZR
Dichloro-1,1-difluoroethane, 1,2-	C2H2Cl2F2	1649-08-7	~11.5	1	ZR	ZR	ZR
Dichloro-1,2,2-trifluoroethane, 1,2-	C2HCl2F3	354-23-4	~11.5	NA	ZR	ZR	ZR
Dichloro-1,2-difluoroethane, 1,2-	C2H2Cl2F2	431-06-1	~11.5	1	ZR	ZR	ZR
Dichloro-1,2-difluoroethene, 1,2-	C2Cl2F2	598-88-9	10.2		2		
Dichloro-1-fluoroethane, 1,1-	C2H3Cl2F	1717-00-6	~11	1	ZR	ZR	ZR
Dichloro-1-fluoroethane, 1,2-	C2H3Cl2F	430-57-9	~11	1	ZR	ZR	ZR
Dichloro-1-propene, 2,3-	C3H4Cl2	78-88-6	~10.5	0.7	1.4		1.9
Dichloro-2,2-difluoroethene, 1,1-	C2H2Cl2F2	79-35-6	9.69	1	1		ZR
Dichloroacetylene	C2Cl2	7572-29-4	9.9	NA	5		NA
Dichlorobenzene, o-	C6H4Cl2	95-50-1	9.06	0.38	0.5	0.5	ZR
Dichlorobenzene, p-	C6H4Cl2	106-46-7	9.06	0.38	0.5	0.5	ZR
Dichlorodifluoromethane	CCl2F2	75-71-8	11.75	ZR	ZR	ZR	ZR
Dichloroethane, 1,1-	C2H4Cl2	75-34-3	11.06	2	ZR	ZR	ZR
Dichloroethane, 1,2-	C2H4Cl2	107-06-2	11.05	0.6	ZR	ZR	ZR
Dichloroethene, 1,1-	C2H2Cl2	75-35-4	10	1	1		ZR
Dichloroethene, cis-1,2-	C2H2Cl2	156-59-2	9.66	1	0.8		ZR
Dichloroethene, trans-1,2-	C2H2Cl2	156-60-5	9.65	0.34	0.36		ZR
Dichloroethylene 1,2-	C2H2Cl2	540-59-0	9.65	0.34	0.36	0.29	0.43
Dichloroethyne	C2Cl2	7572-29-4	9.9		2		
Dichlorofluoromethane	CHFCI2	75-43-4	12.39	ZR	ZR	ZR	ZR
Dichloromethane	CH2Cl2	75-09-2	11.32	0.89	39		ZR
Dichloromethylamine	CH3Cl2N	7651-91-4	9.52		2		
Dichloropropane, 1,2-	C3H6Cl2	78-87-5	10.87	0.7	ZR	ZR	ZR
Dichlorotetrafluoroethane, 1,1-	C2Cl2F4	374-07-2	12.2	ZR	ZR	ZR	ZR
Dichlorotetrafluoroethane, 1,2-	C2Cl2F4	76-14-2	12.2	ZR	ZR		ZR
Dicyclohexylamine	C12H22N	101-83-7	~8.5		0.8		
Dicyclopentadiene	C10H12	77-73-6	7.74	1	0.9		ZR
Diesel fuel		68334-30-5	8	0.4	0.8		10
Diethoxymethane	C4H10O2	110-71-4	9.2	NA	1.3		ZR
Diethyl carbonate	C5H10O3	105-58-8	~10.3		2		
Diethyl ether	C4H10O	60-29-7	9.53	1.9	0.9		ZR
Diethyl maleate	C8H12O4	141-05-9	~10	NA	2		NA
Diethyl phosphite	C4H11O3P	762-04-9	10.31		2		
Diethyl phthalate	C12H14O4	84-66-2	~9	NA	1		NA
Diethyl sulfate	C4H10SO4	64-67-5	~10.5	NA	3		NA
Diethyl sulfide	C4H10S	352-93-2	8.43	1	0.6	0.5	3
Diethyl sulfone	C4H10O2S	597-35-3	9.96		2		
Diethylacetylene	C6H10	928-49-4	10.03		2		
Diethylamine	C4H11N	109-89-7	8.01	0.6	1.3	0.7	NR
Diethylaminoethanol, 2-	C6H15ON	100-37-8	8.58	NA	2.7		NA
Diethylaminopropylamine, 3-	C7H18N2	104-78-9	~9	NA	1.2		NA
Diethylenetriamine	C4H13N3	111-40-0	~9	NA	0.9		ZR
diethylhydroxylamine	C4H12NO	3710-84-7	~10		2		
diethylsilane	C4H12Si	542-91-6	9.8		2		
Difluoroethane, 1,1-	C2H4F2	75-37-6	11.87	ZR	ZR	ZR	ZR
Difluoroethane, 1,2-	C2H4F2	624-72-6	11.86	ZR	ZR	ZR	ZR
Difluoromethane	CH2F2	75-10-5	12.71	ZR	ZR	ZR	ZR
Diglycidyl ether	C6H10O3	75/2238	~9.6	NA	3		NA
Dihydroeugenol	C10H14O2	2785-87-7	~9		0.4		
Dihydrojasmane	C11H18O	1128-08-1	~9		0.6		
Dihydromercenol	C10H20O	18479-58-8	~9		0.8		
Dihydroxybenzene, 1,2-	C6H6O2	120-80-9	8.56	NA	1		ZR
Dihydroxybenzene, 1,3-	C6H6O2	108-46-3	8.63	NA	1		ZR
diiodomethane	CH2I2	75-11-6	9.46		1.2		
Diisobutyl ketone	C9H18O	108-83-8	9.04	NA	0.8	0.7	NA
Diisobutylene	C8H16	107-39-1	8.909	NA	0.6	0.6	NA
Diisopropyl benzene	C12H18	25321-09-9	~8.8		0.4		
Diisopropyl ether	C6H14O	108-20-3	9.2	NA	0.7	0.6	ZR
Diisopropylamine	C6H15N	108-18-9	7.73	0.53	0.7	0.6	0.84
Diketene	C4H4O2	674-82-8	9.6	1.4	2.2		2.6
Dimethoxybenzene, 1,4-	C8H10O2	150-78-7	~9		1.3		
dimethoxyethane, 1,2-	C3H8O	109-87-5	9.3		1.2		
Dimethoxymethane	C3H8O2	109-87-5	10	NA	1.4		ZR
Dimethyl carbonate	C3H6O3	616-38-6	10.5	2	ZR	ZR	ZR
Dimethyl cyclohexane, 1,2-	C8H16	583-57-3	9.41	NA	0.8	0.9	NA
Dimethyl disulfide	C2H6S2	624-92-0	8.46		0.2		
Dimethyl ether	C2H6O	115-10-6	10.03	NA	1.3		4.8
Dimethyl octan-1-ol, 3,7-	C10H22O	106-21-8	~9		1.2		
Dimethyl octan-3-ol, 3,7-	C10H22O	78-69-3	~9		1.2		
Dimethyl pentane, 2,4-	C7H16	108-08-7	~9.8		1		
Dimethyl phosphite	C2H7O3P	868-85-9	10.53		8		
Dimethyl phthalate	C10H10O4	131-11-3	9.64	NA	1		NA

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Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Dimethyl sulfate	C2H6O4S	77-78-1	~12	2.3	ZR	ZR	ZR
Dimethyl sulfoxide	C2H6OS	67-68-5	9.1	2.3	1		
Dimethylacetamide N,N-	C4H9NO	127-19-5	8.81	0.8	1.3		0.9
dimethylacetylene	C4H6	503-17-3	9.58		1		
Dimethylamine	C2H7N	124-40-3	8.24	2	1.4		1.5
Dimethylaminoethanol, 2-	C4H11NO	108-01-0	8.8	NA	1.5		ZR
Dimethylaniline, NN-	C8H11N	121-69-7	7.12	NA	0.6	0.5	ZR
Dimethylboron bromide	C2H6BBr	5158-50-9	10.25		4		
Dimethylbutyl acetate	C8H16O2	108-84-9	~9.5	2	1.6		2
Dimethylcycloheptane, 1,2-	C9H18	13151-50-3	10.21		1.3		
Dimethylethylamine, NN-	C4H11N	598-56-1	7.74	2	3		4
Dimethylformamide	C3H7NO	68-12-2	9.13	1	0.8	0.8	ZR
Dimethylhydrazine, 1,1-	C2H8N2	57-14-7	8.05	0.8	1		2
Dimethylmethylphosphonate	C3H9P03	756-79-6	9.94	NA	5		ZR
Dimethylsilane	C2H8Si	1111-74-6	10.3		2		
Dimethylthiophosphoryl chloride	C2H6ClO2PS	2524-03-0	~9		1		
Di-n-butylamine	C8H19N	111-92-2	7.69		0.9		
Di-n-propylamine	C6H15N	142-84-7	7.8		1		
Dioxane, 1,4-	C4H8O2	123-91-1	9.13	NA	1.5	1.4	NA
Dioxolane	C3H6O2	646-06-0	9.13		1.8		
Dipentene	C10H16	138-86-3	~8.6	1	0.9	0.8	ZR
Diphenyl ether	C12H10O	101-84-8	8.09	NA	0.8	0.7	ZR
Dipropyl ether	C6H14O	111-43-3	9.3		0.8		
Dipropylene glycol	C6H14O3	110-98-5	~10		4		
Disilane	Si2H6	1590-87-0	9.74		2		
Disulfur decafluoride	S2F10	5714-22-7	12.77	NA	ZR	ZR	ZR
Disulfur dibromide	S2Br2	13172-31-1	9.23		1.5		
Disulfur dichloride	S2Cl2	10025-67-9	9.4	NA	3		NA
Di-tert-butyl-p-cresol	C15H24O	128-37-0	7.8		0.3		
Divinylbenzene	C10H10	1321-74-0	~8.2	NA	0.4	0.4	ZR
Dodecene	C12H36	112-40-3	~8.8		0.8		
Enflurane	C4H2F5ClO	13838-16-9	11.7	ZR	ZR	ZR	ZR
Epichlorohydrin	C3H5ClO	106-89-8	10.2	0.5	3.4		ZR
Epoxypropyl isopropyl ether, 2,3-	C6H12O2	4016-14-2	~10	NA	1.1		NA
Estargol	C10H12O	140-67-0	~9		0.7		
Ethane	C2H6	74-84-0	11.56	3	ZR	ZR	ZR
Ethanol	C2H6O	64-17-5	10.43	8	8.7		ZR
Ethanolamine	C2H7NO	141-43-5	10.47	3	3		ZR
Ethoxy-2-methylpropane, 1-	C6H14O	627-02-1	9.3		0.8		
Ethoxy-2-propanol, 1-	C5H10O2	1569-02-4	~9.6	0.8	2		ZR
Ethoxy-butane, 2-	C6H14O	19316-73-5	9.32		0.8		
Ethoxyethanol, 2-	C4H10O2	110-80-5	9.6	3	2		ZR
Ethoxyethyl acetate, 2-	C6H12O3	111-15-9	~10	NA	3		NA
Ethyl 2,2,2-trifluoroethyl ether	C4H7F3O	461-24-5	10.27		5		
Ethyl 2-methylbutyrate	C7H14O2	7452-79-1	~9		2		
Ethyl acetate	C4H8O2	141-78-6	10.01	1	3.6		ZR
Ethyl acetoacetate	C6H10O3	141-97-9	~9.5		3		
Ethyl acrylate	C5H8O2	140-88-5	10.3	1	2		ZR
Ethyl benzene	C8H10	100-41-4	8.76	0.51	0.5	0.5	0.52
Ethyl benzoate	C9H10O2	93-89-0	8.9		0.9		
Ethyl butyrate	C6H12O2	105-54-4	~9.9	NA	1		2
Ethyl chloroformate	C3H5O2Cl	541-41-3	10.64	1.955	83		ZR
Ethyl cyanoacrylate	C6H7O2N	7085-85-0	~10	NA	1.5		3
Ethyl cyclohexane	C8H16	1678-91-7	9.54		1		
Ethyl decanoate	C12H24O2	110-38-3	~9.6	NA	1.8		NA
Ethyl formate	C3H6O2	109-94-4	10.61	1.9	29.8		ZR
Ethyl hexanoate	C8H16O2	123-66-0	~9.75	NA	2.6		NA
Ethyl hexanol, 2-	C8H18O	105-76-7	~9.8	1	1.5		ZR
Ethyl hexanol, 2-	C8H18O	104-76-7	~9.8		1.5		
Ethyl hexyl acrylate, 2-	C11H20O2	103-11-7	~9	0.5	1		ZR
Ethyl iodide	C2H5I	75-03-6	9.34		1.2		
Ethyl isopropyl ketone	C6H12O	565-69-5	9.1		0.8		
Ethyl lactate	C5H10O3	97-64-3	~10	NA	3		13
Ethyl mercaptan	C2H6S	75-08-1	9.29	0.54	0.56	0.55	ZR
Ethyl methacrylate	C6H10O2	97-63-2	~9.5		1.5		
Ethyl morpholine, 4-	C6H13NO	100-74-3	~8		0.6		
Ethyl octanoate	C10H20O2	106-32-1	~9.7	NA	2.3		NA
Ethyl perfluorobutyl ether	C6H5F9O	163702-05-4	~11	20	ZR	ZR	ZR
Ethyl phenyl acetate	C10H12O2	101-97-3	~9		1.2		
Ethyl propanoate	C4H10O2	105-37-3	10.01		2		
Ethyl tert-butyl ether	C6H14O2	637-92-3	9.39		0.6		
Ethyl toluene	C9H12	611-14-3	~8.4		0.4		
Ethyl-3-ethoxypropionate	C7H14O3	763-69-9	~9.5		3		
Ethyl-3-propylacrolein, 2-	C8H14O2	645-62-5	~9.4		1		
Ethylacetylene	C4H6	107-00-6	10.18		3		
Ethylamine	C2H7N	75-04-7	8.86	1	1		ZR
Ethylene	C2H4	74-85-1	10.51	3	8		ZR

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Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Ethylene carbonate	C3H4O3	96-49-1	10.4		3		
Ethylene cyanohydrin	C3H5NO	109-78-4	~10.8	1	ZR	ZR	ZR
Ethylene dinitrate	C2H4O6N2	628-96-6	~10.8	NA	ZR	ZR	ZR
Ethylene glycol	C2H6O2	107-21-1	10.16	NA	20		ZR
Ethylene glycol diacetate	C6H10O4	111-55-7	~10		4		
Ethylene glycol monopropyl ether	C5H12O2	2807-30-9	~9		3		
Ethylene oxide	C2H4O	75-21-8	10.56	2	15		ZR
Ethylenediamine	C2H8N2	107-15-3	8.6		0.8		
Ethyleneimine	C2H5N	2179-59-1	9.2		2		
Ethylhexanal, 2-	C8H16O	123-05-7	~9		1.5		
Ethylhexenal, 2-	C8H14O	645-62-5	~9		1.3		
Ethylvanillin	C9H10O3	121-32-4	~9		1		
Eucalyptol	C10H18O	470-82-6	~9		0.6		
Eugenol	C10H12O2	97-53-0	~9		0.4		
Eugenol methyl ether	C11H14O2	93-15-2	~9		0.4		
Fenchol	C10H18O	1632-73-1	~9		0.4		
Ferrocene	C10H10Fe	102-54-5	6.88	NA	0.8		NA
Fluorine	F2	7782-41-4	15.7	NA	ZR	ZR	ZR
Fluoro-2-propanone, 1-	C3H35FO	430-51-3	9.92	1	ZR	ZR	ZR
Fluorobenzene	C6H5F	462-06-6	9.2		0.8		
Fluorobenzoic acid, 4-	C7H5FO2	456-22-4	9.91		2		
Fluoroethane	C2H5F	353-33-6	11.78	NA	ZR	ZR	ZR
Fluoromethane	CH3F	593-53-3	12.47	NA	ZR	ZR	ZR
Formaldehyde	CH2O	50-00-0	10.87	0.6	ZR	ZR	ZR
Formamide	CH3ON	75-12-7	10.2	NA	2		ZR
Formic acid	CH2O2	64-18-6	11.05	5	ZR	ZR	ZR
Furfural	C5H4O2	98-01-1	9.21	0.53	0.82		ZR
Furfuryl alcohol	C5H6O2	98-00-0	~9.9	NA	2		NA
Furfuryl mercaptan	C5H6OS	98-02-2	~9		0.5		
Gasoline		8006-61-9	~9.9	NA	0.8	1	2
Geraniol	C10H18O	106-24-1	~9		0.7		
Geranyl acetate	C12H20O2	105-87-3	~9		1.2		
Geraniol	C10H16O	141-27-5	~9		0.6		
Germane	GeH4	7782-65-2	11.34	NA	10		NA
Glutaraldehyde	C5H8O2	111-30-8	~9.6	0.6	0.9		ZR
Glycidol	C3H6O2	556-52-5	~10.8	2	ZR	ZR	ZR
Glycidyl methacrylate	C7H10O3	106-91-2	~10		1.2		
Glyoxal	C2H2O2	107-22-2	10.2		1		
Halothane	CF3CHBrCl	151-67-7	11	0.6	ZR	ZR	ZR
Helium	He	7440-59-7	24.59	NA	ZR	ZR	ZR
Heptan-2-one	C7H14O	110-43-0	9.33	NA	0.7		ZR
Heptan-3-one	C7H14O	106-35-4	9.02	NA	0.8		ZR
Heptane	C7H16	142-82-5	9.92	0.36	1.6	3	2.3
Heptanol	C7H16O	53535-33-4	~9.8		1.7		
Heptene, 1-	C7H14	592-76-7	9.34		0.9		
Heptylcyclopentan-1-one, 2-	C12H22O	137-03-1	~9		0.8		
Heptyne, 1-	C7H12	628-71-7	10.04		2		
Hex-1-en-3-ol	C6H12O	4798-44-1	~9		0.9		
Hexachlorodisilane	Cl6Si	13465-77-5	10.4		8		
Hexachloroethane	C2Cl6	67-72-1	11.22	1	ZR	ZR	ZR
Hexafluorobutadiene	C4F6	685-63-2	9.5		3		
Hexafluoroethane	C2F6	76-16-4	13.6	ZR	ZR	ZR	ZR
Hexafluoropropylene	C3F6	116-15-4	10.6	4	ZR	ZR	ZR
Hexamethyldisilazane, 1,1,1,3,3,3-	C6H19NSi2	999-97-3	8.6	0.19	1		1
Hexamethyldisiloxane	C6H18OSi2	107-46-0	9.6	NA	0.3		ZR
Hexamethylene diisocyanate	C8H12N2O2	822-06-0	~9		1.5		
Hexamethyleneimine	C6H13N	111-49-9	8.41		~1		
Hexan-2-one	C6H12O	591-78-6	9.34	NA	0.8	0.7	ZR
Hexane	C6H14	110-54-3	10.13	0.44	2.6	11.7	4.3
Hexanoic acid	C6H12O2	142-62-1	10.12		3		
Hexanol	C6H14O	111-27-3	9.89		2		
Hexene, 1-	C6H12	592-41-6	9.44	NA	0.9		NA
Hexenyl acetate, cis-3-	C8H14O2	3681-71-8	~9		1.5		
Hexenyl butyrate, cis-3-	C10H18O2	16491-36-4	~9		1.5		
Hexylaldehyde	C6H12O	66-25-1	9.72		0.6		
Hydrazine	H4N2	302-01-2	8.93	2.1	3		3
Hydrazoic acid	HN3	7782-79-8	10.72	NA	ZR	ZR	NA
Hydrogen	H2	1333-74-0	15.43	ZR	ZR	ZR	ZR
Hydrogen bromide	HBr	10035-10-6	11.62	NA	ZR	ZR	NA
Hydrogen chloride	HCl	7647-01-0	12.74	NA	ZR	ZR	NA
Hydrogen cyanide	HCN	74-90-8	13.6	ZR	ZR	ZR	ZR
Hydrogen fluoride	HF	7664-39-3	15.98	NA	ZR	ZR	NA
Hydrogen iodide	HI	10034-85-2	10.39		5		
Hydrogen peroxide	H2O2	7722-84-1	10.54	1	ZR	ZR	ZR
Hydrogen selenide	H2Se	75/7783	9.88		2		
Hydrogen sulfide	H2S	64/7783	10.46	1.5	4		ZR
Hydrogen telluride	H2Te	9/7783	9.14		1.5		

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Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Hydroxycitronellal	C10H20O2	107-75-5	~9		1		
Hydroxyethyl acrylate	C5H8O3	818-61-1	~10		1.2		
Hydroxylamine	H3NO	7803-49-8	10		2		
Hydroxypropyl acrylate, 2-	C6H10O3	999-61-1	~9	NA	1.5		ZR
Indene	C9H8	95-13-6	8.81	NA	0.5	0.4	ZR
Indole	C8H7N	120-72-9	7.76		0.4		
Iodine	I2	7553-56-2	9.31	0.1	0.2	0.1	ZR
Iodobenzene	C5H5I	591-50-4	8.73		0.2		
Iodoethene	C2H3I	593-66-8	9.3		1.2		
Iodoform	CHI3	75-47-8	9.25	NA	1.5		NA
Iodomethane	CH3I	74-88-4	9.54	0.26	0.4		ZR
Isoalkanes, C10-C13	C8H18O	68551-17-7	~9.6		1		
Isoamyl acetate	C7H14O2	123-92-2	~9.7	NA	1.6		NA
Isoamyl salicylate	C12H16O3	87-20-7	~9		1		
Isoamylene	C5H10	513-35-9	8.69		1		
Isobornyl acetate	C12H20O2	125-12-2	~9		0.4		
Isobutane	C4H10	75-28-5	10.57	1.2	8		ZR
Isobutanol	C4H10O	78-83-1	10.12	1.5	3.5		ZR
Isobutyl acetate	C6H12O2	110-19-0	9.9	NA	2.3		ZR
Isobutyl acrylate	C7H12O2	106-63-8	~9.5	0.6	1.3		NA
Isobutylene	C4H8	115-11-7	9.239	1	1	1	1
Isobutylene epoxide	C4H8O	558-30-5	10		3		
Isobutyraldehyde	C4H8O	78-84-2	9.74	NA	1.2		ZR
Isobutyric acid	C4H8O2	79-31-2	10.24		4		
Isocyanic acid	HNCO	75-13-8	11.595		ZR	ZR	ZR
Isodecanol	C10H22O	25339-17-7	~9.8	1	0.9		ZR
Isoeugenol	C10H12O2	97-54-1	~9		0.4		
Isoflurane	C3H2ClF5O	26675-46-7	~11	NA	ZR	ZR	ZR
Isoheptane	C7H16	591-76-4	9.84		1.2		
Isojasmone	C11H18O	95-41-0	~9		0.7		
Isomenthone	C10H18O	1196-31-2	9.86		0.6		
Isononanol	C9H20O	3452-97-9	~9.8	1	1.5		ZR
Isooctane	C8H18	565-75-3	9.86	0.38	0.74	0.86	1.23
Isooctanol	C8H18O	26952-21-6	~9.8	1	1.7		ZR
Isopentane	C5H12	78-78-4	10.32	4	4		ZR
Isopentene	C5H10	563-46-2	9.12		0.8		
Isophorone	C9H14O	78-59-1	9.07	NA	0.8		ZR
Isophorone diisocyanate	C12H18N2O2	4098-71-9	~9		0.6		
Isoprene	C5H8	78-79-5	8.85		0.8		
Isopropanol	C3H8O	67-63-0	10.17	2.7	4.4	6	500
Isopropanolamine	C3H9NO	78-96-6	~9.6		1.5		
Isopropoxyethanol, 2-	C5H12O2	109-59-1	~10.3		1.5		
Isopropyl acetate	C5H10O2	108-21-4	9.99	NA	2.2		ZR
Isopropyl chloroformate	C4H7O2Cl	108-23-6	~10.2	NA	1.6		NA
Isopropyl mercaptan	C3H8S	75-33-2	9.15		0.56		
Isopropyl nitrite	C3H7NO2	541-42-4	10.23		4		
Isopropylamine	C3H9N	75-31-0	8.72		1.2		
Isopropylaminoethanol, 2-	C5H13NO	109-56-8	~9		2		
Isopropylcyclohexane	C9H18	696-29-7	9.33		0.9		
Isothiazole	C3H3NS	288-16-4	9.55		3		
Isothiocyanatomethane	C2H3NS	556-61-6	9.25		1.5		
Isoxazole	C3H3NO	288-14-2	9.96		6		
Jasmal	C11H22O3	1322-17-4	~9		1.4		
Jasmone, cis-	C11H16O	488-10-8	~9		0.5		
Jet Fuel JP-4			~9	0.42	0.8	0.7	ZR
Jet Fuel JP-5			~9	0.46	0.7	0.6	ZR
Jet Fuel JP-8			~9	0.32	0.7	0.6	ZR
Kerosene		8008-20-6	~8	NA	0.8	0.7	ZR
Ketene	C2H2O	463-51-4	9.617	NA	3		ZR
Krypton	Kr	7439-90-9	13.9996	ZR	ZR	ZR	ZR
Linalool oxide	C10H18O2	14049-11-7	~9		0.6		
Linalyl acetate	C12H20O2	115-95-7	~9		0.9		
Liquefied petroleum gas		68476-85-7	10.95	NA	ZR	ZR	ZR
Maleic anhydride	C4H2O3	108-31-6	9.9	NA	2		NA
Menthol	C10H20O	1490-04-6	~9		0.5		
Menthone	C10H18O	89-80-5	~9		0.4		
Mercaptoacetic acid	C2H4O2S	68-11-1	~9.8	NA	1		NA
Mercury	Hg	7439-97-6	10.4375	NV	NV	NV	NV
Mercury alkyls				NV	NV	NV	NV
Mesitylene	C9H12	108-67-8	8.41	0.32	0.3	0.3	1
Methacrylic acid	C4H6O2	79-41-4	10.15	NA	2.3		ZR
Methacrylonitrile	C4H5N	126-98-7	10.34	NA	5		ZR
Methane	CH4	74-82-8	12.51	ZR	ZR	ZR	ZR
Methanol	CH4O	67-56-1	10.85	2.5	200		ZR
Methoxy-1-butanol, 3-	C5H12O2	2517-43-3	~9.56		3		
Methoxy-1-propanol, 2-	C4H10O2	1589-47-5	9.3		2		
Methoxy-2,2-dimethylpropane	C6H14O	1118-00-9	9.3		0.7		

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Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Methoxybutyl acetate, 3-	C7H14O3	4435-53-4	~9		2		
Methoxyethanol, 2-	C3H8O2	109-86-4	9.6	1.4	2.7		ZR
methoxyethene	C3H6O	107-25-5	8.95		1		
Methoxyethoxyethanol, 2-	C5H12O3	111-77-3	10	0.9	1.4		ZR
Methoxyethyl acetate	C5H10O3	110-49-6	~9.6	1.4	2.7		ZR
Methoxyethyl ether, 2-	C6H14O3	111-96-6	9.8		0.8		
Methoxymethylethoxy-2-propanol	C7H16O3	34590-94-8	XXX	NA	1.3		ZR
Methoxypropan-2-ol, 1-	C4H10O2	107-98-2	~9.6	1.1	2		ZR
Methoxypropane, 2-	C4H10O	555-17-5	9.45		0.9		
Methoxypropyl acetate	C6H12O3	108-65-6	~9	0.8	1.2		ZR
Methyl 2-methylpropanoate	C5H10O2	547-63-7	9.86		2		
Methyl acetate	C3H6O2	79-20-9	10.27	1.4	5.2		ZR
Methyl acetoacetate	C5H8O3	105-45-3	9.81		3		
Methyl acrylate	C4H6O2	96-33-3	10.25	1.2	3.4		ZR
Methyl anthranilate	C8H9NO2	134-20-3	~9		0.4		
Methyl benzoate	C8H8O2	93-58-3	9.32		1.2		
Methyl bromide	CH3Br	74-83-9	10.54	1.3	1.9		ZR
Methyl cyanoacrylate	C5H5O2N	137-05-3	10.98	2	ZR	ZR	NA
Methyl dimethylacrylate	C6H10O2	924-50-5	~9.6		2.5		
Methyl ethyl ketone	C4H8O	78-93-3	9.51	1.1	0.8		0.86
Methyl ethyl ketone peroxides	C8H18O2	1338-23-4	~9	NA	0.8		NA
Methyl formate	C2H4O2	107-31-3	10.82	NA	ZR	ZR	ZR
Methyl heptyne carbonate	C9H14O2	111-12-6	~9		1.3		
Methyl ionone	C14H22O	1335-46-2	~9		0.4		
Methyl isobutyl ketone	C6H12O	108-10-1	9.3	0.6	0.8		0.9
Methyl isopropyl ketone	C5H10O	563-80-4	9.31		0.8		
Methyl isocyanate	C2H3NO	624-83-9	10.67	1.5	5		ZR
Methyl isothiocyanate	C2H3NS	556-61-6	9.25	0.4	0.6		ZR
Methyl mercaptan	CH4S	74-93-1	9.44	1	0.7	0.6	ZR
Methyl methacrylate	C5H8O2	80-62-6	9.7	1.2	1.6		2.7
Methyl perfluorobutyl ether	C5H3F9O	163702-07-6	~11	30	ZR	ZR	ZR
Methyl phenyl acetate	C9H10O2	101-41-7	~9		0.4		
Methyl propargyl ether	C4H6O	627-41-8	9.78		2		
Methyl propionate	C4H8O2	554-12-1	10.15		1.5		
Methyl propynoate	C4H4O2	922-67-8	10.3		10		
Methyl salicylate	C8H8O3	119-36-8	7.65	NA	0.8		NA
Methyl sulfide	C2H6S	75-18-3	8.69	0.46	0.5	0.5	0.49
Methyl tert-butyl ether	C5H12O	1634-04-4	9.24	1	0.8		ZR
Methyl thiocyanate	C2H3NS	556-64-9	9.96		2		
Methyl thioglyconate	C3H6O2S	2365-48-2	~10		1		
Methyl undecanal, 2-	C12H24O	110-41-8	~9		1.1		
Methyl vinyl ketone	C4H6O	78-94-4	9.65		0.6		
Methyl-1-butene, 3-	C5H10	563-45-1	9.51		0.8		
Methyl-2-butanol, 3-	C5H12O	6032-29-7	9.88		3.3		
Methyl-2-propen-1-ol, 2-	C4H8O	513-42-8	9.24	NA	1.1		NA
Methyl-2-pyrrolidinone, N-	C5H9NO	872-50-4	9.17	0.9	0.9		1
Methyl-5-hepten-2-one, 6-	C8H14O	110-93-0	~9.4	NA	0.8		NA
Methylamine	CH5N	74-89-5	8.97	1	1.4		ZR
Methylamyl acetate	C8H16O2	108-84-9	~9.6		1.2		
Methylbutan-1-ol, 3-	C5H12O	123-51-3	9.8	NA	3		ZR
Methylbutanol	C5H12O	137-32-6	9.86		1.5		
Methylchloroformate	C2H3O2Cl	79-22-1	11.36	1	ZR	ZR	ZR
Methylcyclohexane	C7H14	108-87-2	9.85	0.53	1.1	1	ZR
Methylcyclohexanol	C7H14O	25639-42-3	9.8		2.4		
Methylcyclohexanol, 4-	C7H14O	589-91-3	9.8	NA	2.4		ZR
Methylcyclohexanone, 2-	C7H12O	583-60-8	9.05	NA	1		ZR
Methylcyclopentane	C6H14	96-37-7	9.85		1.5		
Methylenepentane, 3-	C6H12	760-21-4	9.06		0.8		
Methylheptan-3-one, 5-	C8H16O	541-85-5	~9.1	NA	0.8		NA
Methylhexan-2-one, 5-	C7H14O	110-12-3	9.28	NA	0.8		ZR
Methylhydrazine	CH6N2	60-34-4	8	1.3	1.3		1.4
Methylpent-3-en-2-one, 4-	C6H10O	141-79-7	9.1	NA	0.7		ZR
Methylpentan-2-ol, 4-	C6H14O	108-11-2	~9.8	NA	2.8		ZR
Methylpentane, 2-	C6H14	107-83-5	10.12		1.5		
Methylpentane, 3-	C6H14	96-14-0	10.08		1.5		
Methylpentane-2,4-diol, 2-	C6H14O2	107-41-5	~9.6	NA	4		ZR
Methylpropanoyl chloride, 2-	C4H7ClO	79-30-1	~9		6		
Methylstyrene	C9H10	25013-15-4	8.3	1	0.5	0.5	1
Methylthiopropional, 3-	C4H8OS	3268-49-3	~9.5		2		
Mineral oil		8042-47-5	~9	NA	0.8	0.7	NA
Mineral spirits		64475-85-0	~9	0.39	0.8	0.7	ZR
Monoisobutanolamine	C4H11NO	124-68-5	~9		1.6		
Morpholine	C4H9NO	110-91-8	8.88		2		
Myrcene	C10H16	123-35-3	~8.2		0.5		
Naphthalene	C10H8	91-20-3	8.14	0.4	0.4	0.4	0.45
Naphthol methyl ether, 2-	C11H10O	93-04-9	~9		0.5		
Neon	Ne	1/9/7440	21.5645	ZR	ZR	ZR	ZR

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Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Nitric oxide	NO	10102-43-9	9.27	2.8	8		ZR
Nitrobenzene	C6H5NO2	98-95-3	9.92	1.6	1.7		ZR
Nitroethane	C2H5NO2	79-24-3	10.88	3	ZR	ZR	ZR
Nitrogen dioxide	NO2	10102-44-0	9.58	ZR	10		ZR
Nitrogen trifluoride	NF3	7783-54-2	12.97	NA	ZR	ZR	ZR
Nitromethane	CH3NO2	75-52-5	11.08	4	ZR	ZR	ZR
Nitropropane, 1-	C3H7NO2	108-03-2	10.81	NA	ZR	ZR	ZR
Nitropropane, 2-	C3H7NO2	79-46-9	10.71	2.6	ZR	ZR	ZR
Nitrous oxide	N2O	10024-97-2	12.886	NA	ZR	ZR	NA
Nonane	C9H20	111-84-2	9.72	0.31	1.3	2	1.7
Nonanol (all isomers)	C9H20O	143-08-8	~9.8		1.2		
Nonene (all isomers)	C9H18	27215-95-8	~8.8		0.8		
Nonene, 1-	C9H18	124-11-8	~8.8		0.55		
Norbomadiene, 2,5-	C7H8	121-46-0	8.38	NA	0.6		NA
Propylamine, n-	C3H9N	107-10-8	8.5		1		
Ocatanol (all isomers)	C8H18O	111-87-5	~9.8		1.5		
Octamethyltrisiloxane	C8H24O2Si3	107-51-7	10.04		0.3		
Octane	C8H18	111-65-9	9.8	0.31	1.3	3	1.7
Octene (all isomers)	C8H16	25377-83-7	9.4		0.9		
Octene, 1-	C8H16	111-66-0	9.43	0.29	0.58	0.8	0.79
Oxalonitrile	C2N2	460-19-5	13.57	NA	ZR	ZR	NA
Oxalyl bromide	C2Br2O2	15219-34-8	10.49		5		
Oxydiethanol 2,2-	C4H10O3	111-46-6	~10.3	NA	2		NA
Oxygen	O2	7782-44-7	12.07	NA	ZR	ZR	NA
Ozone	O3	10028-15-6	12.52	NA	ZR	ZR	NA
Paraffin wax, fume		8002-74-2	~10	NA	1		NA
Paraffins, normal		64771-72-8	~9.5	1	1		ZR
Pentacarbonyl iron	FeC5O5	13463-40-6	~8	NA	1		NA
Pentachloroethane	C2HCl5	76-01-7	11.28	NA	ZR	ZR	ZR
Pentachlorofluoroethane	C2Cl5F	354-56-3	~11.8	NA	ZR	ZR	ZR
Pentafluoroethane	C2HF5	354-33-6	~12.5	NA	ZR	ZR	ZR
Pentan-2-one	C5H10O	107-87-9	9.38	NA	0.8		ZR
Pentan-3-one	C5H10O	96-22-0	9.31	NA	0.8		ZR
Pentanal	C5H10O	110-62-3	9.74		1.2		
Pentandione, 2,4-	C5H8O2	123-54-6	8.85	NA	0.8		NA
Pentane	C5H12	109-66-0	10.35	0.6	5	140	10
Pentanoic acid	C5H10O2	109-52-4	10.53		4		
Pentanol, 2-	C5H12O	6032-29-7	9.78		1.5		
Pentanol, 3-	C5H12O	584-02-1	9.76		1.5		
Pentene, 1-	C6H12	109-67-1	9.49		1.3		
Pentylcyclopentan-1-one, 2-	C10H18O	4819-67-4	~9		1		
Pentylcyclopentane	C10H20	3741-00-2	9.91		1.1		
Pentyne, 1-	C5H8	627-19-0	10.1		3		
Peracetic acid	C2H4O3	79-21-0	~10.5	2.3	2		ZR
Perchloryl fluoride	ClO3F	7616-94-6	13.6	NA	ZR	ZR	NA
Perfluorobutadiene	C4H6	682-63-5	10.6		10		
Perfluorocyclobutane	C4F8	115-25-3	13.5	ZR	ZR	ZR	ZR
Perfluoropropane	C3F8	76-19-7	13.38	NA	ZR	ZR	ZR
Perfluoro-tert-butylamine	C4H2F9N	2809-92-9	10.4		5		
Petroleum ether		8032-32-4	~10	1	0.9		ZR
Phellandrene	C10H16	99-83-2	~8.2		0.8		
Phenethyl methyl ether, 2-	C9H12O	3558-60-9	~9		0.6		
Phenol	C6H6O	108-95-2	8.51	0.9	1.2	1.1	1
Phenyl ethyl isobutyrate, 2-	C12H16O2	103-48-0	~9		1.5		
Phenyl propene, 2-	C9H10	98-83-9	8.35	NA	0.4	0.4	NA
Phenyl-2,3-epoxypropyl ether	C9H10O2	122-60-1	~8.6	NA	0.8		ZR
Phenylacetaldehyde	C8H8O	122-78-1	8.8		0.7		
Phenylacetic acid	C8H8O2	103-82-2	8.26		1		
Phenylethyl acetate, 1-	C10H12O2	93-92-5	~9		0.7		
Phenylethyl alcohol, 2-	C8H10O	60-12-8	~10		1.2		
Phosgene	COCl2	75-44-5	11.55	2.1	ZR	ZR	NA
Phosphine	PH3	7803-51-2	9.96	1.4	2		ZR
Picoline, 3-	C6H7N	108-99-6	9.04	1	0.9		ZR
Pine oil	N/A	8002-09-3	~9.5		1		
Pinene, α-	C10H16	80-56-8	8.07	0.17	0.27	0.19	0.16
Pinene, β-	C10H16	127-91-3	8.1	0.19	0.27	0.22	0.31
Piperazine	C4H10N2	110-85-0	8.72		0.8		
Piperidine	C5H11N	110-89-4	8.03	NA	0.9	0.8	NA
Piperylene	C5H8	504-60-9	8.6	0.64	0.7	0.6	ZR
Prop-2-yn-1-ol	C3H4O	107-19-7	10.5	0.6	2.9		NA
Propadiene	C3H4	463-49-0	9.83		1		
Propan-1-ol	C3H8O	71-23-8	10.2	1.7	4.8		ZR
Propanamide	C3H7NO2	79-05-0	~9.5		2		
Propane	C3H8	74-98-6	11.07	1.8	ZR	ZR	ZR
Propane-1,2-diol	C3H8O2	57-55-6	10	NA	3		NA
Propanolamine	C3H9NO	156-87-6	~9.5		1.5		
Propargyl chloride	C3H3Cl	624-65-7	9.82		2		

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Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Propen-1-imine, 2-	C3H5N	73311-40-7	9.65		2		
Propene	C3H6	115-07-1	9.73	1	1.4		ZR
propionic acid	C3H2O3	471-25-0	10.45		8		
Propionaldehyde	C3H6O	123-38-6	9.95	2	1.7		ZR
Propionic acid	C3H6O2	79-09-4	10.44	NA	8		ZR
Propionitrile	C3H5NO	107-12-0	11.5	~5	ZR	ZR	
Propoxy-2-propanol, 1-	C6H14O2	1569-01-3	~9.5		1.1		
Propyl acetate, n-	C5H10O2	109-60-4	10.04	4	2.5		ZR
Propyl butanoate	C7H14O2	105-66-8	~9.6		2.3		
Propyl formate	C4H8O2	110-74-7	10.54		10		
Propyl iodide	C3H7I	107-08-4	9.26		1		
Propylbenzene (all isomers)	C9H12	74296-31-4	8.7		0.45		
Propylene carbonate	C4H6O3	108-32-7	~10.5		2		
Propylene dinitrate	C3H6N2O6	6423-43-4	~11	NA	ZR	ZR	NA
Propylene glycol ethyl ether acetate	C7H14O3	98516-30-4	~9.6		1.2		
Propylene oxide	C3H6O	75-56-9	10.22	2	2.7		ZR
Propyleneimine	C3H7N	75-55-8	9	1	1.3		1.5
Propylnitrate, n-	C3H7NO3	627-13-4	11.07	2	ZR	ZR	ZR
Propyne	C3H4	74-99-7	10.36		4		
Pyrazine	C4H4N2	290-37-3	9.29		3		
Pyrdinol, 4-	C5H5NO	626-64-2	9.75		3		
Pyridine	C5H5N	110-86-1	9.25	0.7	0.8		ZR
Pyridylamine 2-	C5H6N2	504-29-0	8.1	NA	0.8		ZR
Rose oxide, cis-	C10H18O	16409-43-1	~9		0.8		
Sevoflurane	C3H3F7O	28523-86-6	11	2	ZR	ZR	ZR
Silane	SiH4	7803-62-5	11	NA	ZR	ZR	ZR
Stibine	SbH3	7803-52-3	9.89		1.5		
Styrene	C8H8	100-42-5	8.4	0.25	0.35	0.3	2.5
Sulfur dichloride	SCI2	234-129-0	9.47		2		
Sulfur dioxide	SO2	9/5/7446	12.3	1.3	ZR	ZR	ZR
Sulfur hexafluoride	SF6	2551-62-4	19.3	NA	ZR	ZR	ZR
Sulfur tetrafluoride	SF4	7783-60-0	12.63	NA	ZR	ZR	ZR
Sulfuryl fluoride	SO2F2	2699-79-8	13.04	NA	ZR	ZR	ZR
TAC						0.5	
Terpineol, α-	C10H18O	98-55-5	~9		0.8		
Terpinolene	C10H16	586-62-9	8.1	0.33	0.59	0.48	0.28
Terpinyl acetate, α-	C12H20O2	80-26-2	~9		1.2		
Tert-butanol	C4H10O	75-65-0	10.25	NA	2.6		NA
Tert-butyl bromide	C4H9Br	507-10-7	9.92		1.5		
Tert-butyl formate	C5H10O2	762-75-4	10.52		8		
Tetrabromoethane, 1,1,2,2-	C2H2Br4	79-27-6	~10	NA	2		NA
Tetracarbonylnickel	NiC4O4	13463-39-3	8.28	NA	1		NA
Tetrachloro-1,2-difluoroethane, 1,1,2,2-	C2Cl4F2	76-12-0	11.3	NA	ZR	ZR	ZR
Tetrachloro-1-fluoroethane, 1,1,2,2-	C2HCl4F	354-14-3	~11	NA	ZR	ZR	ZR
Tetrachloro-2,2-difluoroethane, 1,1,1,2-	C2Cl4F2	76-11-9	~11	NA	ZR	ZR	ZR
Tetrachloro-2-fluoroethane, 1,1,1,2-	C2HCl4F	354-11-0	~11	NA	ZR	ZR	ZR
Tetrachloroethane, 1,1,1,2-	C2H2Cl4	630-20-6	11.1	0.6	ZR	ZR	ZR
Tetrachloroethane, 1,1,2,2-	C2H2Cl4	79-34-5	11.1	0.2	ZR	ZR	ZR
Tetrachloroethylene	C2Cl4	127-18-4	9.326	0.15	0.44	0.33	0.21
Tetrachloropyridine, 2,3,5,6-	C5HNCI4	2402-79-1	~9		1		
Tetraethyl orthosilicate	C8H20O4Si	78-10-4	9.77	0.2	2		ZR
Tetraethyllead	C8H20Pb	78-00-2	11.1	0.2	ZR	ZR	ZR
Tetrafluoroethane, 1,1,1,2-	C2H2F4	811-97-2	~12.2	ZR	ZR	ZR	ZR
Tetrafluoroethane, 1,1,2,2-	C2H2F4	359-35-3	~12.2	ZR	ZR	ZR	ZR
Tetrafluoroethylene	C2F4	116-14-3	10.12	1	15		ZR
Tetrafluoromethane	CF4	75-73-0	15.3	ZR	ZR	ZR	ZR
Tetrahydrofuran	C4H8O	109-99-9	9.41	1	1.6		ZR
Tetrahydronaphthalene	C10H12	119-64-2	8.46		0.4		
Tetrahydrothiophene	C4H8S	110-01-0	8.38		0.6		
Tetramethyl orthosilicate	C4H12O4Si	681-84-5	11	NA	ZR	ZR	NA
Tetramethyl succinonitrile	C8H12N2	3333-52-6		NA	1		NA
Tetramethylbenzene (all isomers)	C10H14	95-93-2	8.06		0.3		
Tetramethylbutane, 2,2,3,3-	C8H18	594-82-1	9.8		1		
Tetramethylgermane	C4H12Ge	865-52-1	9.34		2		
Tetramethylsilane	C3H10Si	993-07-0	9.8		2		
Tetrahydropyran	C5H10O	142-68-7	9.25		3		
Thioacetic acid	C2H4OS	507-09-5	10		2		
Thiocarbonyl fluoride	CSF2	420-32-6	10.45		6		
Thiocyanogen	C2S2N2	505-14-6	10.5		8		
Thioformaldehyde trimer	C3H6S3	291-21-4	9.35		1.5		
Thionyl chloride	SOCI2	9/7/7719	10.96	NA	ZR	ZR	NA
Thiophene	C4H4S	110-02-1	8.86		0.4		
Thiophosgene	CS2Cl	463-71-8	9.61		1		
Titanium-n-propoxide	C12H28O4Ti	3087-37-4	~9		3		
Toluene	C7H8	108-88-3	8.82	0.51	0.5	0.47	ZR
Toluene-2,4-diisocyanate	C9H6N2O2	584-84-9	8.82	2	1.6		ZR
Toluenesulfonyl chloride, p-	C7H7SO2Cl	98-59-9	~9	NA	3		NA

GDS PID VOC Gas Response List

Name	Formula	CAS number	Ionisation energy, eV	Gas response factor vs lamp energy, eV			
				11.7	10.6	10.0	9.8
Toluidine, o-	C7H9N	95-53-4	7.4	1	0.5		ZR
Tolylaldehyde, p-	C8H8O	104-87-0	9.33		0.8		
Triazine, 1,3,5-	C3H3N3	290-87-9	10.01		6		
Tributyl phosphate	C12H27O4P	126-73-8	8.91	NA	5		NA
Tributylamine	C12H27N	102-82-9	7.4	NA	1.2	0.6	0.62
Trichloro-1,1-difluoroethane, 1,2,2-	C2HCl3F2	354-21-2	11	NA	ZR	ZR	ZR
Trichloro-1,2-difluoroethane, 1,1,2-	C2HCl3F2	354-15-4	~11	NA	ZR	ZR	ZR
Trichloro-2,2-difluoroethane, 1,1,1-	C2HCl3F2	354-12-1		NA	ZR	ZR	ZR
Trichloro-2-fluoroethane, 1,1,2-	C2H2Cl3F	359-28-4	~11	1	ZR	ZR	ZR
Trichlorobenzene 1,2,4-	C6H3Cl3	120-82-1	9.04	NA	0.6	0.5	NA
Trichloroethane, 1,1,1-	C2H3Cl3	71-55-6	11	1	ZR	ZR	ZR
Trichloroethane, 1,1,2-	C2H3Cl3	79-00-5	11	1	ZR	ZR	ZR
Trichloroethylene	C2HCl3	79-01-6	9.45	0.43	0.7		
Trichlorofluoromethane	CCl3F	75-69-4	11.77	NA	ZR	ZR	ZR
Trichloronitromethane	CCl3NO2	76-06-2	~13	NA	ZR	ZR	NA
Trichloropropane 1,2,3-	C3H5Cl3	96-18-4	~11	NA	ZR	ZR	ZR
Trichlorotrifluoroethane, 1,1,1-	C2Cl3F3	354-58-5	11.5	2	ZR	ZR	ZR
Trichlorotrifluoroethane, 1,1,2-	C2Cl3F3	76-13-1	11.99	2	ZR	ZR	ZR
Triethyl phosphate	C6H15P04	78-40-0	9.79	NA	3.5		ZR
Triethyl phosphite	C6H15O3	122-52-1	8.3		1.5		
Triethyl silane	C2H6Si	617-86-7	9.5		2		
Triethylamine	C6H15N	121-44-8	7.5	0.65	0.9	0.8	1.5
Triethylbenzene	C12H18	25340-18-5	~8.3		0.35		
Triethylene aluminum	C6H15Al	97-93-8	~10		1		
Trifluoroacetic acid	C2HO2F3	76-05-1	11.46		ZR	ZR	ZR
Trifluoroethane, 1,1,2-	C2H3F3	430-66-0	12.9	34	ZR	ZR	ZR
Trifluoroethanol, 2,2,2-	C2H3F3O	75-89-8	~13	34	ZR	ZR	ZR
Trifluoroethene	C2HF2	359-11-5	10.14		5		
Trifluoroethyl methyl ether, 2,2,2-	C3H5F3O	460-43-5	10.53		10		
Trifluoroiodomethane	CF3I	2314-97-8	10.28		2		
Trifluoromethane	CHF3	75-46-7	13.86	NA	ZR	ZR	ZR
Trimethoxymethane	C4H10O3	149-73-5	9.5		1		
Trimethylamine	C3H9N	53-50-3	7.82	0.3	0.5	0.5	0.36
Trimethylbenzene mixtures	C9H12	25551-13-7	8.41	0.3	0.3	0.3	1
Trimethylbenzene, 1,3,5-	C9H12	108-67-8	8.39	0.23	0.4	0.3	0.23
Trimethylborate	C3H9FB03	121-43-7	10		1		
Trimethylcyclohexane, 1,2,4-	C9H18	2234-75-5	9.35		1		
Trimethylene oxide	C3H6O	503-30-0	9.65		1.5		
Trimethylsilane	C3H10Si	993-07-7	9.9		1		
Trioxane	C3H4O3	110-88-3	10.3		2		
Tungsten hexafluoride	WF6	7783-82-6	15.53	ZR	ZR	ZR	ZR
Turpentine oil	C10H16	8006-64-2	~8	1	0.6	0.5	1
Turpentine	C10H16	9005-90-7	~8.5		0.6		
TVOC			~10	1	1	0.9	
Undecane	C11H24	1120-21-4	9.56	1	0.9	0.8	ZR
Vanillin	C8H8O3	121-33-5	~9		1		
Vinyl acetate	C4H6O2	108-05-2	9.19	1	1.1	1	ZR
Vinyl bromide	C2H3Br	593-60-2	9.8	NA	1.5	0.9	ZR
Vinyl chloride	C2H3Cl	75-01-4	9.99	0.6	2.1	1.9	ZR
Vinyl ethyl ether	C4H8O	109-92-2	8.98		0.6		
Vinyl fluoride	C2H3F	75-02-5	10.37		2		
Vinyl-2-pyrrolidinone, 1-	C6H9NO	88-12-0	9	0.92	0.9	0.8	ZR
Vinylcyclohexene, n-	C8H12	100-40-3	8.93		0.7		
Vinylene carbonate	C3H2O3	872-36-6	10.08		1		
Vinylidene difluoride	C2H2F2	75-38-7	10.29		5		
Vinylsilane	C2H6Si	7291-09-0	10.1		1.5		
Water	H2O	7732-18-5	12.61	ZR	ZR	ZR	ZR
Xenon	Xe	7440-63-3	12.13	ZR	ZR	ZR	ZR
Xylene mixed isomers	C8H10	1330-20-7	8.56	0.28	0.33	0.3	0.29
Xylene, m-	C8H10	108-38-3	8.56	0.4	0.4	0.4	ZR
Xylene, o-	C8H10	95-47-6	8.56	0.69	0.6	0.5	ZR
Xylene, p-	C8H10	106-42-3	8.44	0.62	0.6	0.54	4
Xylidine, all	C8H11N	1300-73-8	7.5	NA	0.7	0.6	ZR

Note ZR =Zero Response

Response Factor- The number you multiply the displayed reading to obtain the true concentration.