

Photoionization Characteristics of Selected Compounds

Compound Name	Alternate Name	Alternate Name	Ionization Potential eV	Molar Sensitivity Relative to Benzene (= 10.0) with Different Lamps		
				9.5 eV	10.2 eV	11.7 eV
Acetaldehyde	Ethyl Aldehyde	Ethanal	10.21	0.20		2.80
Acetaldehyde oxime					2.30	
Acetamide			9.77			
Acetic acid	Ethanoic acid		10.35		0.50	3.28
Acetic anhydride					0.90	
Acetone	2-propanone		9.69		4.20	3.80
Acetonitrile	Methyl cyanide		12.22			0.08
Acetophenone			9.27			
Acetyl bromide			10.55			
Acetic chloride			11.02			
Acetylene	Ethyne		11.41		0.00	
Acetylene dichloride			9.80			
Acetylene tetrabromide			N/A			
Acridene			7.78			
Acrolein	2-propenal	Acrylaldehyde	10.10		3.10	2.70
Acrylic acid			10.09			
Acrylonitrile	Vinyl cyanide	Propene nitrile	10.90			3.85
Allene			9.83			
Allyl alcohol			9.67		2.50	4.70
Allyamine			9.6*			
Allyl chloride	3-chloropropene		10.20		1.30	11.90
Aminoethanol			9.87			
2-amino-pyridine			8.34			
Ammonia			10.15		0.60	3.00
n-amyl acetate			N/A			
sec-amyl acetate			N/A			
Aniline	Phenylamine	Aminobenzene	7.70	3.90		
Anisole			8.20			
Arsine			10.60		2.18	
Benzaldehyde	Benzoic aldehyde		9.53		6.70	8.60
Benzene			9.25	10.00	10.00	10.00
Benzenethiol			8.33			
Benzonitrile			9.70			
Benzotrifluoride			9.68			
Benzyl chloride	Alpha-chlorotoluene		10.16		6.70	11.70
Biphenyl			8.27			
Bromobenzene	Phenyl bromide		8.98		15.60	17.80
1-bromobutane			10.13			
2-bromobutane			9.95			
1-bromobutane			9.54			
1-bromobutanone			9.54			
1-bromo-2-chloroethane			10.63			
Bromochloromethane			10.77			
Bromodichloromethane			10.88			
1-bromo-2-chloropropane			N/A			
Bromoethane			10.24			

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				9.5 eV	10.2 eV	11.7 eV
Bromoethene			9.80			
Bromoform			10.51			
1-bromo-3-hexanone			9.26			
Bromomethane			10.53			
Bromomethyl ethyl ether			10.08			
1-bromo-2-methylpropane			10.09			
2-bromo-2-methylpropane			9.98			
1-bromopentane			10.10			
1-bromopropane			10.18			
2-bromopropane			10.08			
1-bromopropene			9.30			
2-bromopropene			10.06			
3-bromopropene			9.70			
2-bromothiophene			8.63			
o-bromotoluene			8.78			
m-bromotoluene			8.81			
p-bromotoluene			8.67			
1, 2-butadiene			9.57		6.99	
1, 3-butadiene	Vinylethylene		9.57		6.99	7.60
2, 3-butadione			9.23			
Butanal	n-butanal		9.83			
2-butanal			9.73			
Butane	n-butane		10.63			7.13
1-butanethiol			9.14			
2-butanone			9.53			
iso-butanol			10.47			
sec-butanol			10.23			
tert-butanol			10.25			
2-butanol			10.10			
1-butene			9.58			
cis-2-butene			9.13			
trans-2-butene			9.13			
3-butene nitrile			10.90			
Butoxyethanol					2.80	
n-butyl acetate			10.01			
sec-butyl acetate			9.91			
t-butyl acetate			9.90			
n-butyl alcohol			10.04			
n-butylamine			8.71			
iso-butylamine			8.70			
sec-butylamine			8.70			
tert-butylamine			8.64			
n-butylbenzene			8.69			
iso-butylbenzene			8.68			
tert-butylbenzene			8.68			
Butyl cellosolve			8.68			

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Compound Name	Alternate Name	Alternate Name	Ionization Potential eV	Molar Sensitivity Relative to Benzene (= 10.0) with Different Lamps		
				9.5 eV	10.2 eV	11.7 eV
iso-butyl ethanoate			9.95			
iso-butyl mercaptan			9.12			
n-butyl mercaptan			9.15			
tert-butyl mercaptan			9.03			
iso-butyl methanoate			10.46			
p-tert-butyltoluene			8.35			
isobutylene			9.44		5.50	7.40
1-butyne	iso-butyne		10.18			
2-butyne			9.85			
n-butyl acetate			10.01			
n-butyraldehyde			9.86			
Caprolactam			9.86			
Carbon dioxide			13.79			
Carbon disulfide	Carbon bisulfide		10.07	3.37	4.90	27.70
Carbon tetrachloride	Perchloromethane	tetrachloromethane	11.47			4.22
Carbon monoxide			14.01			
Cellosolve acetate			N/A			
Chloroacetaldehyde			10.16			
o-chloriodobenzene			8.35			
Chlorobenzene	Phenyl chloride		9.07		13.00	14.40
1-chloro-2-bromoethane			10.63			
Chlorobromomethane			10.77			
1-chlorobutane			10.67			
2-chlorobutane			10.65			
1-chlorobutanone			9.54			
1-chloro-2, 3 epoxypropane			10.60			
Chloroethane	Ethyl chloride		10.97			
Chloroethanol					0.20	6.70
Chloroethene			10.00			
2-chloroethoxyethene			10.61			
1-chloro-2-fluorobenzene			9.15			
1-chloro-3-fluorobenzene			9.21			
cis-1-chloro-2-fluoroethene			9.87			
trans-1-chloro-2-fluoroethene			9.87			
Chloroform	Trichloromethane		11.42			3.15
o-chloriodobenzene			8.35			
1-chloro-2-methylbenzene			8.72			
1-chloro-4-methylbenzene			8.78			
Chloromethylethyl ether			10.08			
Chloromethylmethyl ether			10.25			
1-chloro-2-methylpropane			10.66			
2-chloro-2-methylpropane			10.61			
1-chloropropane			10.82			
2-chloropropane			10.78			
3-chloropropene			10.04			
p-chlorostyrene			N/A			

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Compound Name	Alternate Name	Alternate Name	Ionization Potential eV	Molar Sensitivity Relative to Benzene (= 10.0) with Different Lamps		
				9.5 eV	10.2 eV	11.7 eV
2-chlorothiophene			8.68			
o-chlorotoluene	2-chloro-1-methylbenzene		8.83		10.60	13.60
m-chlorotoluene			8.86			
p-chlorotoluene	4-chloro-1-methylbenzene		8.69		10.80	15.00
Chlorotrifluoroethane			10.40			
Citral					0.50	
m-cresol			8.48			
o-cresol			8.48			
p-cresol			8.48			
Crotonaldehyde	2-butenal	Betamethylacrolein	9.73		3.10	6.40
Crotonaldehyde			9.73			
Cumene	l-propyl-benzene		8.75	3.79		
Cyanoethane			10.91			
Cyanogen bromide			11.95			
Cyanogen chloride			12.49			
3-cyanopropene			10.39			
Cyclobutane			10.50			
Cyclohexane	Hexamethylene		9.88		3.40	
Cyclohexanol			10.00			
Cyclohexanone	Ketohexamethylene		9.14		8.20	7.30
Cyclohexene	1, 2, 3, 4-tetrahydrobenzene		8.95		3.40	
Cyclo-octatetraene			7.99			
Cyclopentadiene			8.58			
Cyclopentane	Pentamethylene		10.52		0.90	13.20
Cyclopentanone			9.26			
Cyclopentene			9.01			
Cyclopropane			10.06			
Cyclopropene			9.95			
Decalin					10.41	
Decane	n-decane	Decyl hydride	10.19		3.30	
2-decanone			9.40			
Diacetone alcohol			N/A			
Diborane			11.9*			1.54
1, 3-dibromobutane			N/A			
1, 4-dibromobutane			10.25*			
Dibromochloromethane			10.59			
Dibromochloropropane					0.70	
Dibromoethane	Ethylene dibromide		10.19		2.30	21.80
1, 1-dibromoethane			10.19			
1, 3-dibromopropane			10.07			
Dibutyl amine			7.69		9.90	
o-dichlorobenzene			9.07		11.90	15.50
m-dichlorobenzene			9.12		11.90	15.50
p-dichlorobenzene			8.94		11.90	15.50
1, 3-dichlorobutane			N/A			
1, 4-dichlorobutane			N/A			

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2, 2-dichlorobutane			N/A			
2, 3-dichlorobutane			N/A			
cis-1, 4-dichloro-2-butene			N/A			
1, 1-dichloroethane			11.06			8.40
1, 1-dichloroethane						
1, 2-dichloroethane	Ethylene dichloride		11.04			10.57
cis-dichloroethane			9.65			
trans-dichloroethane			9.65			
Dichloroethyl ether			N/A			
1, 1-dichloroethylene	Vinylidene chloride	1, 1, dichloroethene	9.60		6.40	
Dichlorofluoromethane			11.75			
Dichloromethane	Methylene dichloride		11.35			8.70
1, 2-dichloropropane	Propylene dichloride		10.87		0.20	12.10
1, 3-dichloropropane	Propylene dichloride		10.85		0.20	12.10
1, 1-dichloropropanone			9.71			
2, 3-dichloropropene			9.82		4.00	
Dicyclopentadiene			7.74			
Diethoxymethane			9.70			
Diethyl			8.01			
Diethylamine			8.01	10.08	4.80	
Diethylamino ethanol			8.58			
Diethyl ether			9.53			
N, N-diethyl formamide			8.89			
Diethyl ketone			9.32			
Diethyl sulfide			8.43		10.00	
o-difluorobenzene	1, 2-difluorobenzene		9.31			
p-difluorobenzene	1, 4-difluorobenzene		9.15			
Difluorodibromomethane			11.10			
Difluoromethylbenzene			9.45			
Diiodomethane			9.34			
Diisopropylamine			7.73			
Diisobutyl ketone			9.04			
Diisopropylamine			7.73			
1,1-dimethoxymethane			9.65			
Dimethoxymethane			10.00			
Dimethylamine			8.24		4.90	
Dimethylaniline			7.13			
2, 3-dimethylbutadiene			8.72			
2, 2-dimethylbutane			10.05			
2, 2-dimethyl butane-3, 1			9.18			
2, 3-dimethylbutane			10.01			
3, 3-dimethyl butanone			9.17			
2, 3-dimethyl-2-butene			8.30			
Dimethyl ether			10.00			
3, 5-dimethyl-4-heptanone			9.04			
2, 2-dimethyl-3-pentanone			8.98			

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				9.5 eV	10.2 eV	11.7 eV
2, 2-dimethyl propane			10.35			
Dimethyl disulfide			8.46		16.00	20.00
N, N Dimethyl formamide			9.12			
3, 5-dimethyl-4-heptanone			9.04			
1, 1-dimethylhydrazine			8.88			
2, 2-dimethyl-3-pentanone			8.98			
2, 2-dimethylpropane			10.35			
Dimethyl sulfide			8.69			
p-dioxane			9.13			
Di-n-propyl disulfide			8.27			
Di-n-propylamine			7.84			
Di-i-propyl ether			9.20			
Di-n-propyl ether			9.27			
Di-n-propyl sulfide			8.30			
Epichlorohydrin	Cyclopropylene oxide		10.60		0.70	10.30
Ethane	n-ethane	Methylmethane	11.65			0.69
Ethanal			11.65			
Ethanol	Ethyl alcohol		10.21		2.46	2.40
Ethanethiol			9.29			
Ethanethiol	Ethyl mercaptan		9.29			
Ethylene	Ethene		10.52		0.89	
Ethylene glycol					4.00	
Ethoxyethanol					2.50	
Ethyl acetate			10.11			
Ethyl acrylate			N/A			
Ethyl amine			8.86			
Ethyl amyl ketone			9.10			
Ethylbenzene			8.76			
Ethyl bromide			10.29			
Ethyl butyl ketone			9.02			
Ethyl chloride (Chloroethane)			10.97			
Ethyl chloroacetate			10.20			
Ethyl ethanoate			10.10			
Ethyl ether			9.41			
Ethyl disulfide			8.27			
Ethyl disulfane			9.40			
Ethyl formate			10.61			4.40
Ethyl iodine			9.33			
Ethyl mercaptan			9.29			
Ethyl methanoate			10.61			
Ethyl isothiocyanate			9.14			
Ethyl methyl sulfide			8.55			
Ethyl nitrate			11.22			
Ethyl propanoate			10.00			
Ethyl trichloroacetate			10.44			
Ethylene	Ethene		10.52		0.60	

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				9.5 eV	10.2 eV	11.7 eV
Ethylene chloride						9.20
Ethylene chlorohydrin			10.90			
Ethylene dibromide	Dibromomethane	EDB	10.37		1.86	21.80
Ethylene dichloride	1, 2-dichloroethane		11.00			10.50
Ethylene dichlorohydrin			10.90			
Ethylene oxide	EtO		10.57		0.30	13.20
Ethylbenzene			8.87			
Ethyne			11.41			
Fluorobenzene			9.20			
Fluoroethane			12.00			
Fluoroethene			10.37			
Mono-fluoromethanal			11.40			
Fluorobromomethane			11.77			
o-fluorotoluene			8.91			
m-fluorotoluene			8.91			
p-fluorotoluene			9.79			
Formaldehyde			10.87			1.07
Formic acid			10.37			
Formamide			10.25			
Freon 11 (CFCl ₃)			11.77			
Freon 12 (CF ₂ Cl ₂)			12.31			
Freon 13 (CF ₃ Cl)			12.91			
Freon 13 B-1			12.08			
Freon 14 (neat)			16.25			
Freon 21			12.00			
Freon 22 (CHClF ₂)			12.45			
Freon 113 (CF ₃ CCl ₃)			11.78			
Freon 114			12.00			
2-Furaldehyde			9.21			
Furan			8.89			
Furfural			9.21			
Furfuryl Alcohol			N/A			
Genetron 101			11.98			
Heptane	n-heptane		10.07	0.20	2.20	15.90
2-heptanone			9.33			
4-heptanone			9.12			
Hexane	n-hexane		10.18		1.24	8.43
Hexafluoroacetone			11.81			
Hexafluorobenzene			9.39			
Hexafluoropropene			10.30			
Hexamethylbenzene			7.85			
2-hexanone			9.34			
1-hexene			9.46		0.20	
Hydrazine			9.00			
Hydrofluoric acid			9.88			
Hydrogen			15.43			

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				9.5 eV	10.2 eV	11.7 eV
Hydrogen cyanide			13.73			
Hydrogen selenide			9.88			
Hydrogen sulfide			10.46		1.20	10.10
Hydrogen telluride			9.14			
Iodine			9.28		32.18	
Iodobenzene			8.73			
1-iodobutane			9.71			
2-iodobutane			9.09			
Iodoethane	Ethyl iodide		9.33			
Iodomethane	Methyl iodide		9.45			
1-iodo-2-methylpropane			9.18			
1-iodopentane			9.19			
1-iodopropane			9.26			
2-iodopropane			9.17			
m-iodotoluene			8.61			
o-iodotoluene			8.62			
p-iodotoluene			8.50			
Isoamyl acetate			9.90			
Isobutylene	2-methylpropene		9.23		5.50	
Isopar					18.96	
Isopropanol	Isopropyl alcohol		10.16		0.88	3.60
Isopropyl acetate			9.99		1.00	
Isopropylamine			8.72			
Isopropylbenzene			8.75			
Isopropyl ether			9.20			
Isovalderhyde			9.71			
Ketene			9.61			
Mesitylene			8.40			
Mesityl oxide			9.08			
Methane	n-methane		12.48	0.00	0.00	0.00
Methanol	Methyl alcohol		10.85			2.34
Methyl acetate			10.27			5.10
Methyl acrylate			10.72			
Methyl amine			8.97			
2-methyl-1, 3-butadiene			8.85			
2-methylbutanal			9.71			
2-methylbutane			10.31			
2-methyl-1-butene			9.12			
3-methyl-1-butene			9.51			
3-methyl-2-butene			8.67			
Methyl n-butyl ketone			9.34			
Methyl bromide	Bromomethane		10.53		2.73	
Methyl butyrate			10.07			
Methyl cellosolve			N/A			
Methyl cellosolve acetate			N/A			
Methyl chloroacetate			10.35			

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				9.5 eV	10.2 eV	11.7 eV
Methyl chloride	Chloromethane		11.28			7.60
Methylchloroform			11.25			
Methylcyclohexane			9.85			
Methylcyclohexanol			9.80			
Methylcyclohexanone			9.05			
4-methylcyclohexene			8.91			
Methylcyclopropane			9.52			
Methyl dichloroacetate			10.44			
Methylene chloride	Dichloromethane		11.35		0.14	6.83
Methyl ethanoate			10.27			
Methyl ethyl ether			9.81			
Methyl ethyl ketone	MEK	2-butanone	9.53	2.90	5.59	5.30
Methyl ethyl sulfide			8.55			
Methyl formate						18.87
2-methyl furan			8.39			
Methyl iodide			9.54	36.48	26.76	
Methyl isobutyl ketone	Hexanone	Isopropylacetone	9.32		8.90	9.20
Methyl isobutyrate			9.98			
Methyl isocyanate			10.67		4.50	
1-methyl-4-isopropylbenzene			N/A			
Methyl isopropyl ketone			9.32			
Methyl mercaptan	Methanethiol		9.44		4.30	
Methyl methacrylate			9.74	0.50	3.00	
Methyl methanoate			10.82			
2-methylpentane			10.11			
3-methylpentane			10.08			
3-methylpentane			10.07			
2-methylpropanal			9.74			
2-methyl-2-propanol			9.70			
2-methylpropene			9.23			
Methyl n-propyl ketone			9.39			
Methyl styrene			8.35			
Methyl sulfide					7.00	
Methyl-tert-butylether			10.00			
Mineral spirits					4.00	
Monomethyl hydrazine			N/A			
Morpholine			8.88			
Naptha (85% aromatics)					5.00	
Napthalene			8.12		16.20	
Nitric oxide			9.25		0.60	
Nitrobenzene			9.82			
p-nitrochlorobenzene			9.96			
Nitroethane			9.92			
Nitrogen			15.60			
Nitrogen dioxide					0.02	
Nitrotoluene			10.88			

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				9.5 eV	10.2 eV	11.7 eV
Nitromethane			11.08			
Nonane	n-nonane		10.21			
5-nonanone			9.10			
Octane	n-octane		10.24		1.96	
3-octanone			9.19			
4-octanone			9.10			
1-octene			9.52			
Oxygen			12.08			
Pentane	n-pentane	Amyl hydride	10.34			10.08
Isopentane			10.32			
Pentachloroethane			11.28			
1, 3-pentadiene (cis)			8.65			
1, 3-pentadiene (trans)			8.56			
Pentafluorobenzene			9.84			
Pentamethylbenzene			7.92			
n-pentanal			9.82			
2, 4-pentanedione			8.87			
2-pentanone			9.39			
3-pentanone			9.32			
1-pentene			9.50			
Perchloroethylene			9.32			
Perfluoro-2-butene			11.25			
Perfluoro-1-heptene			10.48			
n-perfluoropropyl iodide			10.26			
(n-perfluoropropyl)-iodomethane			9.96			
(n-perfluoropropyl)-methyl ketone			10.58			
Phenol			8.50	7.70		
Phenyl ether			8.09			
Phenyl isocyanete			8.77			
Phosgene			11.77			
Phosphine			10.10		2.00	
Pinene, alpha			8.07		0.70	
Pinene, beta			8.07		0.50	
Propadiene			10.19			
n-propanal			9.95			
Propane	n-propane	Dimethylmethane	11.07			4.51
1-propanethiol			9.20			
Propanol	n-propanol alcohol	Propyl alcohol	10.51		0.80	
Propanone			11.07			
Propenal (Acrolein)			10.10			
Propene (propylene)			9.73		4.00	
Prop-1-ene-2-ol			8.20			
Prop-2-ene-1-ol			9.67			
Propionaldehyde			9.98			
Propionic acid			10.34			
Propionitrile			11.84			

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				9.5 eV	10.2 eV	11.7 eV
n-propyl acetate			10.04			
n-propyl amine			8.78			
n-propyl benzene			8.72			
propylene	Propene		9.73		4.00	
Propylene dichloride			N/A			
Propylene imine			8.76			
Propylene oxide			10.22		0.76	
n-propyl ether			9.27			
n-propyl formate			10.54			
Propyne			10.36			
Pyridine			9.32	2.20	6.10	
Styrene	Vinyl benzene	Phenyl ethylene	8.47	15.34	14.87	10.70
Tetrabromoethane			N/A			
1, 1, 1, 2-tetrachloroethane			N/A			
1, 1, 2, 2-tetrachloroethane			11.10			8.60
Tetrachloroethylene	Perchloroethylene	PERC	9.32		8.60	
Tetrachloromethane			11.47			
1, 1, 1, 2-tetrachloropropane			N/A			
1, 2, 2, 3-tetrachloropropane			N/A			
1, 2, 3, 4-tetrafluorobenzene			9.61			
1, 2, 3, 5-tetrafluorobenzene			9.55			
1, 2, 4, 5-tetrafluorobenzene			9.39			
Tetrafluoroethane			10.12			
Tetrahydrofuran	THF		9.45		6.00	6.30
Tetrahydropyran			9.26			
1, 2, 4, 5-tetramethylbenzene			8.03			
2, 2, 4, 4-tetramethyl-3-pentanone			8.65			
Thioethanol			9.29			
Thiomethanol			9.44			
Thiophene			8.86			
1-thiopropanol			9.20			
Toluene			8.82	10.20	9.28	11.40
o-toluidine			7.44			
Tribromoethene			9.27			
Tribromomethane			10.51			
1, 1, 1-trichlorobutanone			9.54			
1, 1, 1-trichloroethane	Methyl chloroform		11.25			10.70
1, 1, 2-trichloroethane			N/A			
Trichloroethylene	Trichloroethene	TCE	9.45		9.00	
Trichloromethyl ethyl ether			10.08			
Trichloromethane			11.42			
1, 1, 2-trichloropropane			N/A			
1, 2, 3-trichloropropane			N/A			
Triethylamine			7.50			
1, 2, 4-trifluorobenzene			9.37			
1, 3, 5-trifluorobenzene			9.30			

Photoionization Characteristics of Selected Compounds

Compound Name	Alternate Name	Alternate Name	Ionization Potential eV	Molar Sensitivity Relative to Benzene (= 10.0) with Different Lamps		
				9.5 eV	10.2 eV	11.7 eV
1, 1, 2-trifluoroethane			10.14			0.24
Trifluoroethene			10.14			
1, 1, 1-trifluoro-2-iodoethane			10.00			
Trifluoroiodomethane			10.40			
Trifluoromethylbenzene			9.68			
Trifluoromethylcyclohexane			10.46			
1, 1, 1-trifluoropropene			10.90			
Trimethylamine			7.82			
1, 2, 3-trimethylbenzene			8.48			
1, 2, 4-trimethylbenzene			8.27			
1, 3, 5-trimethylbenzene			8.39			
2, 2, 4-trimethyl pentane			9.85			
2, 2, 4-trimethyl-3-pentanone			8.82			
n-valderaldehyde			9.82			
Vinyl acetate			9.19			
Vinyl benzene (styrene)			8.47		9.70	
Vinyl bromide			9.80			
Vinyl chloride	Chloroethylene	VCM	10.00		3.20	7.80
4-vinylcyclohexene			8.93			
Vinyl ethanoate			9.19			
Vinyl fluoride			10.37			
Vinylidene chloride					6.40	
Vinyl methyl ether			8.93			
o-vinyl toluene			8.20			
Water (H ₂ O)			12.59			
o-xylene			8.56		10.44	
m-xylene			8.56		11.20	
p-xylene			8.45		11.40	
2,4-xylydine			7.65			

Notes:

- 1) The above molar sensitivities have been determined on a volume/volume basis, generally at a level of 100 ppm.
- 2) Molar sensitivities will vary from instrument to instrument and will be effected by field conditions such as humidity.
- 3) The highest level of accuracy for compounds will be achieved by utilizing standards prepared with the actual compounds to be measured.
- 4) Ionization potentials established by photoionization except those marked " * ", determined by electron impact