Compound Name	Formula	Lamp 9.7eV	Lamp 10.2eV	Lamp 11.7eV	IP (eV)
Acetaldehyde	C2H4O	...	5.5	...	10.23
Acetic Acid	C2H4O2	NR	22	2.6	10.66
Acetic Anhydride	C4H6O3	NR	6.1	2	10.14
Acetone	C3H6O	1.2	1.1	1.4	9.71
Acetonitrile	C2H3N	...	...	100	12.19
Acetylene	C2H2	...	...	2	11.4
Acrolein	C3H4O	42	3.9	1.4	10.1
Acrylic Acid	C3H4O2	...	12	2	10.6
Acrylonitrile	C3H3N	...	NR	1.2	10.91
Allyl alcohol	C3H6O	...	2.4	1.7	9.67
Allyl chloride	C3H5Cl	...	4.3	0.7	9.9
Ammonia	H3N	NR	9.7	5.7	10.16
Amyl alcohol	C5H12O		5		10
Aniline	C7H7N	0.5	0.5	0.5	7.72
Anisole	C7H8O		0.8		8.21
Benzaldehyde	C7H6O			1	9.49

Benzene	C6H6	0.55	0.5	0.6	9.25
Benzonitrile	C7H5N		1.6		9.62
Benzyl chloride	C7H7Cl		2	0.7	
Bromobenzene	C6H5Br		0.6	0.5	8.98
Bromoform	CHBr3	NR	2.5	0.5	10.48
Bromopropane,1-	C3H7Br	150	1.5	0.6	10.18
Butadiene	C4H6		1	1.1	9.07
Butadiene diepoxide,1,3-	C4H6O2	25	3.5	1.2	~10
Butane	C4H10			1.2	10.53
Butanol, 1-	C4H10O	70	4.7	1.4	9.99
Butene, 1-	C4H8		0.9		9.58
Butoxyethanol, 2-	C6H14O2	1.8	1.2	0.6	<10
Butyl acetate, n-	C6H12O2		2.6		10
Butyl acrylate, n-	C7H12O2		1.6	0.6	
Butylamine	C4H11N		7		8.71
Butyl cellosolve					
Butyl mercaptan	C4H10S		0.5		9.14

Carbon disulfide	CS2		1.2	0.3	10.07
Carbon tetrachloride	CCl4	NR	NR	1.7	11.47
Chlorine	Cl2			1	11.48
Chloro-1,3-butadiene, 2-	C4H5Cl		3		
Chlorobenzene	C6H5Cl	0.44	0.4	0.39	9.06
Chloro-1,1-difluoroethane, 1- (R-142B)	C2H3ClF2		NR	NR	12
Chlorodifluoromethane	CHClF2	NR	NR	NR	12.2
Chloroethane	C2H5Cl	NR	NR	1.1	10.97
Chloroethanol	C2H5ClO				10.52
Chloroethyl methyl ether, 2-	C3H7ClO		3		
Chloroform	CHCl3	NR	NR	3.5	11.37
Chlorotoluene, o-	C7H7Cl		0.5	0.6	8.83
Chlorotoluene, p-	C7H7Cl			0.6	8.69
Crotonaldehyde	C4H6O	1.5	1.1	1	9.73
Cumene	C9H12	0.58	0.5	0.4	8.73
Cyanogen bromide	CNBr	NR	NR	NR	11.84
Cyanogen chloride	CNCl	NR	NR	NR	12.34

Cyclohexane	C6H12		1.4		9.86
Cyclohexanol	C6H12O			1.1	9.75
Cyclohexanone	C6H10O	1	0.9	0.7	9.14
Cyclohexene	C6H10		0.8		8.95
Cyclohexylamine	C6H13N		1.2		8.62
Cyclopentane	C5H10			0.6	10.51
Decane	C10H22	4	1.4	0.4	9.65
Diacetone alcohol	C6H12O2		0.7		
Dibromoethane, 1,2-	C2H4Br2	NR	1.7	0.6	10.37
Dichlorobenzene, o-	C6H4Cl2	0.54	0.47	0.38	9.08
Dichlorodifluoromethane	CCl2F2		NR	NR	11.75
Dichloroethane, 1,1-	C2H4Cl2				11.06
Dichloroethane, 1,2-	C2H4Cl2		NR	0.6	11.04
Dichloroethene, 1,1-	C2H2Cl2		0.9		9.79
Dichloroethene, c-1,2-	C2H2Cl2		0.8		9.66
Dichloroethene, t-1,2-	C2H2Cl2		0.5	0.3	9.65
Dichloro-1-fluoroethane, 1,1- (R-141B)	C2H3Cl2F	NR	NR	2	

Dichloropropane, 1,2-	C3H6Cl2			0.7	10.87
Dichloro-1-propene, 2,3-	C3H4Cl2	1.9	1.3	0.7	<10
Dichloro-1,1,1-trifluoroethane, 2,2- (R-123)	C2HCl2F3	NR	NR	10.1	11.5
Diesel Fuel #1	m.w. 226		0.9		
Diesel Fuel #2	m.w. 216		0.7	0.4	
Diethylamine	C4H11N		1		8.01
Diethylaminopropylamine,3-	C7H18N2		1.3		
Diethylmaleate	C8H12O4		4		
Dimethylacetamide, N,N-	C4H9NO	0.87	0.8	0.8	8.81
Dimethylamine	C2H7N		1.5		8.23
Dimethyl disulfide	C2H6S2	0.2	0.2	0.2	7.4
Dimethylformamide, N,N-	C3H7NO		0.8		9.13
Dimethylhydrazine, 1,1-	C2H8N2		0.8	0.8	7.28
Dimethyl sulfate	C2H6O4S	~23	~20	2.3	
Dioxane, 1,4-	C4H8O2		1.1		9.19
Epichlorohydrin	C2H5ClO	~200	8.5	1.4	10.2
Ethane	C2H6		NR	15	11.52

Ethanol	C2H6O		12	8	10.47
Ethanolamine (Not Recommended)	C2H7NO		~4	~3	8.96
Ethene	C2H4		10	3	10.51
Ethoxyethanol, 2-	C4H10O2		3.5		9.6
Ethyl acetate	C4H8O2		4.6		10.01
Ethyl acrylate	C5H8O2		2.4	1	(<10.3)
Ethylamine	C2H7N		0.8		8.86
Ethylbenzene	C8H10	0.52	0.5	0.5	8.77
Ethylene glycol	C2H6O2		16	6	10.16
Ethylene oxide	C2H4O		19	3	10.57
Ethyl ether	C4H10O		1.1		9.51
Ethyl formate	C3H6O2			1.9	10.61
Ethyl hexyl acrylate, 2-	C11H20O2		1.1	0.5	
Ethyl (S)-(-)-lactate	C5H10O3	13	3.2	1.6	~10
Ethyl mercaptan	C2H6S		0.6		9.29
Ethyl sulfide	C4H10S		0.5		8.43
Formaldehyde	CH2O			0.6	10.87

Furfural	C5H4O2		0.9	0.8	9.21
Gasoline #1	m.w. 72		0.9		
Gasoline #2, 92 octane	m.w. 93	1.3	1	0.5	
Glutaraldehyde	C5H8O2	1.1	0.8	0.6	
Halothane	C2HBrClF3			0.6	11
HCFC-123 see 2,2-Dichloro-1,1,1-trifluoroethane, R-123					
HCFC-141B see 1,1-Dichloro-1-fluoroethane					
HCFC-142B see 1-Chloro-1,1-difluoroethane					
Heptane, n-	C7H16		2.6	0.5	9.92
Hexamethyldisilazane,1,1,1,3,3,3-	C6H19NSi2		0.2	0.2	~8.6
Hexane, n-	C6H14	300	4.3	0.5	10.13
Hexene, 1-	C6H12		0.8		9.44
Hydrazine	H4N2		2.6	2.1	8.1
Hydrogen	H2	NR	NR	NR	15.43
Hydrogen peroxide	H2O2	NR	NR	NR	10.54
Hydrogen sulfide	H2S	NR	3.3	1.5	10.45
Iodine	I2	0.1	0.1	0.1	9.4
Isobutane	C4H10		100	1.2	10.57
Isobutanol	C4H10O	19	3.8	1.5	10.02

Isobutene	C4H8	1	1	1	9.24
Isobutyl acrylate	C7H12O2		1.5	0.6	
Isoflurane					
Isooctane	C8H18		1.4		9.86
Isopar G Solvent	m.w. 148		0.8		
Isopar M Solvent	m.w. 191		0.7	0.4	
Isophorone	C9H14O			3	9.07
Isoprene	C5H8	0.69	0.6	0.6	8.85
Isopropanol	C3H8O	500	6	2.7	10.12
Isopropyl acetate	C5H10O2		2.5		9.99
Isopropyl ether	C6H14O		0.8		9.2
Jet fuel JP-4	m.w. 115		1	0.4	
Jet fuel JP-5	m.w. 167		0.6	0.5	
Jet fuel JP-8	m.w. 165		0.6	0.3	
Kerosene					
Mesitylene	C9H12	0.36	0.35	0.3	8.41
Methane	CH4	NR	NR	NR	12.51

Methanol	CH4O	NR	NR	2.5	10.85
Methoxyethanol, 2-	C3H8O2	4.8	2.4	1.4	10.1
Methoxyethoxyethanol, 2-	C7H16O3	2.3	1.2	0.9	<10
Methyl acetate	C3H6O2			1.6	10.27
Methyl acrylate	C4H6O2		3.7	1.2	-9.9
Methylamine	CH5N		1		8.97
Methyl bromide	CH3Br	110	1.7	1.3	10.54
Methyl t-butyl ether	C5H12O		0.9		9.24
Methyl cellosolve					
Methyl chloride	CH3Cl	NR	NR	0.7	11.22
Methylcyclohexane	C7H14		1.1		9.64
Methylene chloride	CH2Cl2	NR	NR	0.89	11.32
Methyl ethyl ketone	C4H8O	0.86	0.9	1.1	9.51
Methylhydrazine	C2H6N2	1.4	1.2	1.3	7.7
Methyl isobutyl ketone	C6H12O		1.2	0.9	9.3
Methyl isocyanate	C2H3NO	NR	4.6	1.5	10.67
Methyl mercaptan	CH4S		0.6		9.44
Methyl methacrylate	C5H8O2		1.4	1.4	9.7

Methyl propyl ketone	C5H12O		0.9	0.8	9.38
Methyl-2-pyrrolidinone, N-	C5H9NO	1	0.8	0.9	9.17
Methyl salicylate	C8H8O3		2		
Methylstyrene, a-	C9H10		0.5		8.18
Mineral spirits			0.7	0.39	
Mineral Spirits - Viscor 120B Calibration Fluid		1	0.7	0.3	
Naphthalene	C10H8	0.45	0.4	0.4	8.13
Nitric oxide	NO		5.2	2.8	9.26
Nitrobenzene	C6H5NO2	2.6	1.9	1.6	9.81
Nitroethane	C2H5NO2			3	10.88
Nitrogen dioxide	NO2		NR	NR	9.75
Nitromethane	CH3NO2			4	11.02
Nitropropane, 2-	C3H7NO2			2.6	10.71
Nonane	C9H20		2		9.72
Octane, n-	C8H18	13.2	1.8		9.82
Pentane	C5H12	80	8.4	0.7	10.35
Peracetic acid	C2H4O3	NR	NR	2.3	

Peracetic/Acetic acid mix	C2H4O3		50	2.5	
Perchloroethene	C2Cl4	0.69	0.57	0.31	9.32
PGME	C6H12O3	2.4	1.5	1.1	
PGMEA	C6H12O3	1.65	1	0.8	
Phenol	C6H6O	1	1	0.9	8.51
Phosphine in N2	PH3		2	1.4	9.87
Photocopier Toner			0.5	0.3	
Picoline, 3-	C6H7N		0.9		9.04
Pinene, a-	C10H16		0.3	0.5	8.07
Pinene, b-	C10H16	0.38	0.4	0.4	~8
Piperylene, isomer mix	C5H8	0.76	0.7	0.6	8.6
Propane	C3H8		NR	1.8	10.95
Propanol, n-	C3H8O		6	1.7	10.22
Propene	C3H6		1.7		9.73
Propionaldehyde	C3H6O		1.9		9.95
Propyl acetate, n-	C5H10O2		3.5		10.04
Propylene oxide	C3H6O		6.5	2	10.22

Propyleneimine	C3H7N	1.5	1.3	1	9
Pyridine	C5H5N	0.78	0.7	0.7	9.25
RR7300 (PGME/PGMEA)	C4H10O2/C6H12O3		1.4	1	
Stoddard Solvent - see Mineral Spirits					
Styrene	C8H8	0.45	0.4	0.4	8.43
Sulfur dioxide	SO2		NR	NR	12.32
Tetrachloroethane, 1,1,1,2-	C2H2Cl4			1.3	~11.1
Tetrachloroethane, 1,1,2,2-	C2H2Cl4	NR	NR	0.6	~11.1
Tetraethyllead	C8H20Pb	0.4	0.3	0.2	~11.1
Tetraethyl orthosilicate	C8H20O4Si		0.7	0.2	~9.8
Tetrafluoroethane, 1,1,1,2-	C2H2F4		NR	NR	
Tetrafluoromethane	CF4		NR	NR	>15.3
Tetrahydrofuran	C4H8O	1.9	1.7	1	9.41
Therminol		0.9	0.7		
Toluene	C7H8	0.54	0.5	0.51	8.82
Tolylene-2,4-diisocyanate	C9H6N2O2	1.4	1.4	2	
Trichloroethane, 1,1,1-	C2H3Cl3		NR	1	11

Trichloroethane, 1,1,2-	C2H3Cl3	NR	NR	0.9	11
Trichloroethene	C2HCl3	0.62	0.5	0.4	9.47
Trichlorotrifluoroethane, 1,1,2-	C2Cl3F3		NR	NR	11.99
Triethylamine	C6H15N		1.3		7.5
Trifluoroethane, 1,1,2-	C2H3F3			34	12.9
Trimethylamine	C3H9N		0.9		7.82
Trimethylbenzene, 1,3,5- - see Mesitylene					
Turpentine	C10H16		0.4		
Undecane	C11H24		2		9.56
Vinyl actetate	C4H6O2		1.2		9.19
Vinyl bromide	C2H3Br		0.4		9.8
Vinyl chloride in N2	C2H3Cl		2	0.6	9.99
Vinyl-2-pyrrolidinone, 1-	C6H9NO	1	0.8	0.9	
Viscor 120B - see Mineral Spirits - Viscor 120B Calibration Fluid					
Xylene, m-	C8H10	0.5	0.4	0.4	8.56
Xylene, o-	C8H10	0.57	0.6	0.7	8.56
Xylene, p-	C8H10		0.5	0.6	8.44