

### Appendix II: Response Factors

1,2,3-trimethylbenzene	0.49	gasoline	1.1
1,2,4-trimethylbenzene	0.43	heptane	2.5
1,2-dibromoethane	11.7	hydrazine	2.6
1,2-dichlorobenzene	0.5	hydrogen sulfide	3.2
1,2-dichloroethane (11.7 lamp)	0.5	isoamyl acetate	1.8
1,3,5-trimethylbenzene	0.34	isobutanol	4.7
1,4-dioxane	1.4	isobutyl acetate	2.6
1-butanol	3.4	isobutylene	1
1-methoxy-2-propanol	1.4	isooctane	1.3
1-propanol	5.7	isopentane	8
2-butoxyethanol	1.3	isophorone	0.74
2-methoxyethanol	2.5	isoprene (2-methyl-1,3-butadiene)	0.6
2-pentanone	0.78	isopropanol	5.6
2-picoline	0.57	isopropyl acetate	2.6
3-picoline	0.9	isopropyl ether	0.8
4-hydroxy-4-methyl-2-pentanone	0.55	isopropylamine	0.9
4-methylbenzyl alcohol	0.8	Jet A fuel	0.4
acetaldehyde	10.8	JP-5 fuel	0.48
acetic acid	11	JP-8 fuel	0.48
acetone	1.2	mesityl oxide	0.47
acetophenone	0.59	methanol (11.7 lamp)	2.5
acrolein	3.9	methyl acetate	7
allyl alcohol	2.5	methyl acetoacetate	1.1
ammonia	9.4	methyl acrylate	3.4
amylacetate	3.5	methyl benzoate	0.93
arsine	2.6	methyl ethyl ketone	0.9
benzene	0.53	methyl isobutyl ketone	1.1
bromoform	2.3	methyl mercaptan	0.6
bromomethane	1.8	methyl methacrylate	1.5
butadiene	0.69	methyl tert-butyl ether	0.86
butyl acetate	2.4	methylamine	1.2
carbon disulfide	1.2	methylene chloride (11.7 lamp)	0.85
chlorobenzene	0.4	m-xylene	0.53
cumene (isopropylbenzene)	0.54	naphtalene	0.37
cyclohexane	1.5	n,n-dimethylacetamide	0.73
cyclohexanone	0.82	n,n-dimethylformamide	0.8
decane	1.6	n-hexane	4.5
diethylamine	1	nitric oxide	7.2
dimethoxymethane	11.3	n-nonane	1.6
dimethyl disulfide	0.3	nitrogen dioxide (11.7 lamp)	10
diesel fuel #1	0.9	n-pentane	9.7
diesel fuel #2	0.75	n-propyl acetate	3.1
epichlorhydrin	7.6	octane	2.2
ethanol	10	o-xylene	0.54
ethyl acetate	4.2	phenol	1
ethyl acetoacetate	0.9	phosphine	2.8
ethyl acrylate	2.3	pinene, alpha	0.4
ethyl ether (diethyl ether)	1.2	pinene, beta	0.4
ethyl mercaptan	0.6	propionaldehyde (propanal)	14.8
ethylbenzene	0.51	propylene	1.3
ethylene	10.1	propylene oxide	6.5
ethylene glycol	15.7	p-xylene	0.5
ethylene oxide	19.5	pyridine	0.79
		quinoline	0.72
		styrene	0.4
		tert-butyl alcohol	3.4



## ***Appendix II: Response Factors***

tert-butyl mercaptan 0.55  
tert-butylamine 0.71  
tetrachloroethylene 0.56  
tetrahydrofuran 1.6  
thiophene 0.47  
toluene 0.53  
trans-1,2-Dichloroethene 0.45  
trichloroethylene 0.5  
trimethylamine 0.83  
turpentine - crude sulfite 1  
turpentine - pure gum 0.45  
vinyl acetate 1.3  
vinyl bromide 0.4  
vinyl chloride 1.8  
vinylcyclohexane (VCH) 0.54  
vinylidene chloride (1,1-DCE) 0.8