


TechTIPS

The latest from PE Photovac


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COMPOUNDS DETECTABLE WITH PHOTOVAC PIDS, FIDS AND PORTABLE GAS CHROMATOGRAPHS

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**COMPOUNDS DETECTABLE WITH PE PHOTOVAC PIDs, FIDs
AND PORTABLE GAS CHROMATOGRAPHS**

COMPOUND	IONIZATION ANALYZER			COMPOUND	IONIZATION ANALYZER		
	POTENTIAL(eV)	GC	PID FID		POTENTIAL(eV)	GC	PID FID
Acetaldehyde	10.21	✓	✓ ✓	3-Bromopropene	9.70	✓	✓ ✓
Acetic Acid	10.37		✓ ✓	2-Bromothioflorophene	8.63	✓	✓ ✓
Acetone	9.69	✓	✓ ✓	o-Bromotoluene	8.79	✓	✓ ✓
Acetonitrile	12.20	✓	✓	m-Bromotoluene	8.81	✓	✓ ✓
Acetylene*	11.41	✓	✓ ✓	p-Bromotoluene	8.67	✓	✓ ✓
Acetylene Dichloride	9.80	✓	✓	1,3-Butadiene	9.07	✓	✓ ✓
Acetylene Tetrabromide	n.p.		✓ ✓	2,3-Butadiene	9.23	✓	✓ ✓
Acrolein	10.10	✓	✓ ✓	n-Butanal	9.83	✓	✓ ✓
Acrylonitrile	10.91	✓	✓ ✓	2-Butanal	9.73	✓	✓ ✓
Allene	9.83	✓	✓ ✓	n-Butane	10.63	✓	✓ ✓
Allyl Alcohol	9.67	✓	✓ ✓	2-Butanone	9.53	✓	✓ ✓
Allyl Chloride	10.20	✓	✓ ✓	iso-Butanol	10.47	✓	✓ ✓
Aminoethanol	9.87	✓	✓ ✓	sec-Butanol	10.23	✓	✓ ✓
2-Aminopyridine	8.34		✓ ✓	tert-Butanol	10.25	✓	✓ ✓
Ammonia	10.15	✓	✓	1-Butene	9.58	✓	✓ ✓
n-Amyl Acetate	n.p.	✓	✓ ✓	cis-2-Butene	9.13	✓	✓ ✓
sec-Amyl Acetate	n.p.	✓	✓ ✓	trans-2-Butene	9.13	✓	✓ ✓
Aniline	7.70		✓ ✓	n-Butyl Acetate	10.01	✓	✓ ✓
Arsine	8.89	✓	✓	sec-Butyl Acetate	9.91	✓	✓ ✓
Benzaldehyde	9.53	✓	✓ ✓	t-Butyl Acetate	9.90	✓	✓ ✓
Benzene	9.25	✓	✓ ✓	n-Butyl Alcohol	10.04	✓	✓ ✓
Benzenethiol	8.33	✓	✓ ✓	n-Butylamine	8.71		✓ ✓
Benzyl Chloride	9.14	✓	✓ ✓	i-Butylamine	8.70		✓ ✓
Bromobenzene	8.98	✓	✓ ✓	s-Butylamine	8.70		✓ ✓
1-Bromobutane	10.13	✓	✓ ✓	t-Butylamine	8.64		✓ ✓
2-Bromobutane	9.98	✓	✓ ✓	n-Butylbenzene	8.69	✓	✓ ✓
1-Bromobutanone	9.54	✓	✓ ✓	i-Butylbenzene	8.68	✓	✓ ✓
1-Bromo-2-chloroethane	10.63	✓	✓ ✓	t-Butylbenzene	8.68	✓	✓ ✓
Bromochloromethane	10.77	✓	✓	Butyl Cellosolve®	8.68	✓	✓ ✓
Bromodichloromethane	10.59	✓	✓ ✓	i-Butyl Ethanoate	9.95	✓	✓ ✓
1-Bromo-3-chloropropane	n.p.	✓	✓ ✓	n-Butyl Mercaptan	9.15	✓	✓ ✓
Bromoethane	10.28	✓	✓ ✓	t-Butyl Mercaptan	9.03	✓	✓ ✓
Bromoethene	9.80	✓	✓ ✓	iso-Butyl Mercaptan	9.12	✓	✓ ✓
Bromoform	10.48	✓	✓ ✓	i-Butyl Methanoate	10.46	✓	✓ ✓
1-Bromo-3-hexanone	9.26	✓	✓ ✓	p-tert-Butyltoluene	8.35	✓	✓ ✓
Bromomethane (Methyl Bromide)	10.53	✓	✓ ✓	1-Butyne	10.18	✓	✓ ✓
Bromomethyl Ethyl Ether	10.08	✓	✓ ✓	2-Butyne	9.85	✓	✓ ✓
1-Bromo-2-methylpropane	10.09	✓	✓ ✓	n-Butyraldehyde	9.86	✓	✓ ✓
2-Bromo-2-methylpropane	9.89	✓	✓ ✓	Carbon Disulfide	10.13	✓	✓
1-Bromopentane	10.10	✓	✓ ✓	Carbon Tetrachloride*	11.28	✓	✓ ✓
1-Bromopropane	10.18	✓	✓ ✓	Cellosolve Acetate	n.p.	✓	✓ ✓
2-Bromopropane	10.08	✓	✓ ✓	Chloroacetaldehyde	10.16	✓	✓ ✓
1-Bromopropene	9.30	✓	✓ ✓	Chlorobenzene	9.07	✓	✓ ✓
2-Bromopropene	10.06	✓	✓ ✓	Chlorobromomethane	10.77	✓	✓

COMPOUND	IONIZATION ANALYZER			COMPOUND	IONIZATION ANALYZER				
	POTENTIAL(eV)	GC	PID		FID	POTENTIAL(eV)	GC	PID	FID
1-Chloro-2-bromoethane	10.63	✓	✓	✓	1,3-Dibromobutane	n.p.	✓	✓	✓
1-Chlorobutane	10.67	✓	✓	✓	1,4-Dibromobutane	n.p.	✓	✓	✓
2-Chlorobutane	10.65	✓	✓	✓	Dibromochloromethane	10.59	✓	✓	✓
1-Chlorobutanone	9.54	✓	✓	✓	Dibromochloropropane	n.p.	✓	✓	✓
1-Chloro-2,3-epoxypropane	10.60	✓	✓	✓	1,1-Dibromoethane	10.19	✓	✓	✓
Chloroethane (Ethyl Chloride)	10.97	✓	✓	✓	Dibromomethane	10.49	✓	✓	✓
Chloroethene (Vinyl Chloride)	10.30	✓	✓	✓	1,2-Dibromopropane	10.26	✓	✓	✓
2-Chloroethoxyethene	10.51	✓	✓	✓	2,2-Dibromopropane	n.p.	✓	✓	✓
1-Chloro-2-fluorobenzene	9.16	✓	✓	✓	Dibutylamine	7.69	✓	✓	✓
1-Chloro-3-fluorobenzene	9.21	✓	✓	✓	1,2-Dichlorobenzene	9.07	✓	✓	✓
cis-1-Chloro-2-fluoroethene	9.37	✓	✓	✓	1,3-Dichlorobutane*	n.p.	✓	✓	✓
trans-1-Chloro-2-fluoroethene	9.37	✓	✓	✓	1,4-Dichlorobutane*	n.p.	✓	✓	✓
Chloroform*	11.37	✓	✓	✓	cis-1,4-Dichloro-2-butene	n.p.	✓	✓	✓
o-Chloroindobenzene	8.35	✓	✓	✓	2,2-Dichlorobutane*	n.p.	✓	✓	✓
Chloromethylethyl Ether	10.08	✓	✓	✓	2,3-Dichlorobutane*	n.p.	✓	✓	✓
Chloromethylmethyl Ether	10.25	✓	✓	✓	3,4-Dichlorobutane*	n.p.	✓	✓	✓
1-Chloro-2-methylpropane	10.66	✓	✓	✓	1,1-Dichloroethane*	11.06	✓	✓	✓
Chloroprene	8.83	✓	✓	✓	1,2-Dichloroethane (Ethylene Dichloride)*	11.04	✓	✓	✓
1-Chloropropane*	10.82	✓	✓	✓	cis-1,2-Dichloroethene	9.65	✓	✓	✓
2-Chloropropane*	10.78	✓	✓	✓	trans-1,2-Dichloroethene	9.66	✓	✓	✓
3-Chloropropene	10.04	✓	✓	✓	1,1-Dichloroethene	10.00	✓	✓	✓
p-Chlorostyrene	n.p.	✓	✓	✓	Dichloroethyl Ether	n.p.	✓	✓	✓
2-Chlorothiophene	8.68	✓	✓	✓	Dichloromethane (Methylene Chloride)*	11.35	✓	✓	✓
o-Chlorotoluene	8.83	✓	✓	✓	1,2-Dichloropropane*	10.87	✓	✓	✓
m-Chlorotoluene	8.83	✓	✓	✓	1,3-Dichloropropane*	10.85	✓	✓	✓
p-Chlorotoluene	8.70	✓	✓	✓	1,1-Dichloropropanone	9.71	✓	✓	✓
o-Cresol	8.48	✓	✓	✓	2,3-Dichloropropene	9.82	✓	✓	✓
m-Cresol	8.48	✓	✓	✓	Dicyclopentadiene	7.74	✓	✓	✓
p-Cresol	8.48	✓	✓	✓	Diethoxymethane	9.70	✓	✓	✓
Cumene (i-Propyl Benzene)	8.75	✓	✓	✓	Diethylaniline	8.01	✓	✓	✓
Crotonaldehyde	9.73	✓	✓	✓	Diethylanunoethanol	8.58	✓	✓	✓
Cyanoethene*	10.91	✓	✓	✓	Diethyl Ether	9.53	✓	✓	✓
Cyanogen Bromide*	10.91	✓	✓	✓	Diethyl Ketone	9.52	✓	✓	✓
3-Cyanopropene	10.39	✓	✓	✓	Diethyl Sulfide	8.43	✓	✓	✓
Cyclobutane	10.50	✓	✓	✓	1,2-Difluorobenzene	9.31	✓	✓	✓
Cyclohexane	9.98	✓	✓	✓	1,4-Difluorobenzene	9.15	✓	✓	✓
Cyclohexanol	10.00	✓	✓	✓	Difluorodibromomethane*	11.18	✓	✓	✓
Cyclohexanone	9.14	✓	✓	✓	Difluoromethylbenzene	9.45	✓	✓	✓
Cyclohexene	8.95	✓	✓	✓	Diiodomethane	9.34	✓	✓	✓
Cyclo-octatetraene	7.99	✓	✓	✓	Diisobutyl Ketone	9.04	✓	✓	✓
Cyclopentadiene	8.55	✓	✓	✓	Diisopropylamine	7.73	✓	✓	✓
Cyclopentane	10.52	✓	✓	✓	1,1-Dimethoxyethane	9.65	✓	✓	✓
Cyclopentanone	9.26	✓	✓	✓	Dimethoxymethane	10.00	✓	✓	✓
Cyclopentene	9.01	✓	✓	✓	Dimethylamine	8.24	✓	✓	✓
Cyclopropane	10.06	✓	✓	✓	Dimethylaniline	7.13	✓	✓	✓
2-Decanone	9.40	✓	✓	✓	2,3-Dimethylbutadiene	8.72	✓	✓	✓
Diacetone Alcohol	n.p.	✓	✓	✓	2,2-Dimethylbutane	10.06	✓	✓	✓

COMPOUND	IONIZATION			ANALYZER			COMPOUND	IONIZATION			ANALYZER		
	POTENTIAL(eV)	GC	PID	FID	POTENTIAL(eV)	GC		PID	FID				
2,2-Dimethylbutan-3-one	9.18	√	√	√	mono-Fluorobenzene	9.20	√	√	√				
2,3-Dimethylbutane	10.02	√	√	√	mono-Fluoroethene	€ 10.37	√	√	√				
2,3-Dimethyl-2-butene	8.30	√	√	√	mono-Fluoromethanal	11.40	√	√	√				
3,3-Dimethylbutanone	9.17	√	√	√	Fluorotribromomethane	10.67	√	√	√				
Dimethyl Disulfide	8.46	√	√	√	o-Fluorotoluene	8.92	√	√	√				
Dimethyl Ether	10.00	√	√	√	m-Fluorotoluene	8.92	√	√	√				
Dimethylformamide	9.45		√	√	p-Fluorotoluene	8.79	√	√	√				
3,5-Dimethyl-4-heptanone	9.04	√	√	√	Formaldehyde	10.88	√						
1,1-Dimethylhydrazine	8.88		√	√	Freon 11 (Fluorotrichloromethane)	11.77	√		√				
2,2-Dimethyl-3-pentanone	9.98	√	√	√	Freon 12 (Dichlorodifluoromethane)	12.91	√		√				
2,2-Dimethylpropane	10.35	√	√	√	Freon 13 (Chlorotrifluoromethane)	12.91	√		√				
Dimethyl Sulfide	8.69	√	√	√	Freon 13 B-1 (Bromotrifluoromethane)	12.08	√		√				
Di-n-propyl Disulfide	8.27	√	√	√	Freon 14 (Carbon Tetrafluoride)	16.25	√		√				
Di-n-propyl Ether	9.27	√	√	√	Freon 21 (Dichlorodifluoromethane)	12.00	√		√				
Di-i-propyl Ether	9.20	√	√	√	Freon 22 (Chlorodifluoromethane)	12.45	√		√				
Di-n-propylamine	7.84		√	√	Freon 113 (1,1,2-Dichlorotrifluoroethane)	11.78	√		√				
Di-n-propyl Sulfide	8.30	√	√	√	Furan	8.89	√	√	√				
1,4-Dioxane	9.41	√		√	Furfuryl Alcohol	n.p.	√	√	√				
Epichlorohydrin	10.60	√	√	√	Furfural	9.21	√	√	√				
Ethane*	11.65	√	√	√	n-Heptane	10.07	√	√	√				
Ethanol	10.62	√	√	√	2-Heptanone	9.33	√	√	√				
Ethanolamine	9.87		√	√	4-Heptanone	9.12	√	√	√				
Ethanethiol (Ethyl Mercaptan)	9.29	√	√	√	n-Hexane	10.18	√	√	√				
Ethene (Ethylene)	10.52	√	√	√	Hexanone	n.p.	√	√	√				
Ethyl Acetate	10.11	√	√	√	2-Hexanone	9.44	√	√	√				
Ethyl Acrylate	n.p.	√	√	√	1-Hexene	9.46	√	√	√				
Ethylamine	8.86		√	√	sec-Hexyl Acetate	n.p.		√	√				
Ethyl Amyl Ketone	9.10	√	√	√	Hydrazine	n.p.	√	√	√				
Ethylbenzene	8.76	√	√	√	Hydrogen Selenide	9.88	√	√					
Ethyl Bromide	10.29	√	√	√	Hydrogen Sulfide	10.46	√	√					
Ethyl Butyl Ketone	9.02	√	√	√	Hydrogen Telluride	9.14	√	√					
Ethyl Chloride	11.01	√		√	Iodobenzene	8.73	√	√	√				
Ethyl Chloroacetate	10.20	√	√	√	1-Iodobutane	9.21	√	√	√				
Ethyl Ethanoate	10.10	√	√	√	2-Iodobutane	9.09	√	√	√				
Ethyl Ether	9.41	√	√	√	Iodoethane (Ethyl Iodide)	9.33	√	√	√				
Ethyl Disulfide	8.27	√	√	√	Iodomethane (Methyl Iodide)	9.54	√	√	√				
Ethylene Chlorohydrin	10.90	√	√	√	1-Iodo-2-methylpropane	9.18	√	√	√				
Ethylene Dibromide (EDB)	10.37	√	√	√	1-Iodo-2-methylpropane	9.02	√	√	√				
Ethylene Oxide	10.56	√	√	√	1-Iodopentane	9.19	√	√	√				
Ethyl Formate	10.61	√	√	√	1-Iodopropane	9.26	√	√	√				
Ethyl Iodide	9.33	√	√	√	2-Iodopropane	9.17	√	√	√				
Ethyl Mercaptan	9.29	√	√	√	o-Iodotoluene	8.62		√	√				
Ethyl Methanoate	10.61	√	√	√	m-Iodotoluene	8.61		√	√				
Ethyl isothiocyanate	9.14	√	√	√	p-Iodotoluene	8.50		√	√				
Ethyl Methyl Sulfide	8.55	√	√	√	Isoamyl Acetate	9.90	√	√	√				
Ethyl Propanoate	10.00	√	√	√	Isoamyl Alcohol	10.16	√	√	√				
Ethyl Trichloroacetate	10.44	√	√	√	Isobutane	10.57	√	√	√				

COMPOUND	IONIZATION	ANALYZER			COMPOUND	IONIZATION	ANALYZER		
	POTENTIAL(eV)	GC	PID	FID		POTENTIAL(eV)	GC	PID	FID
Isobutylamine	8.70		√	√	Methyl Isobutyl Ketone (MIBK)	9.30	√	√	√
Isobutyl Acetate	9.97	√	√	√	Methyl Isobutyrate	9.98	√	√	√
Isobutyl Alcohol	10.47	√	√	√	Methyl Isocyanate	10.67	√		√
Isobutyl Formate	10.46	√	√	√	1-Methyl-4-isopropylbenzene	n.p.	√	√	√
Isobutylene	9.43	√	√	√	Methyl Isopropyl Ketone	9.32	√	√	√
Isobutyraldehyde	9.74	√	√	√	Methyl Mercaptan (Methanethiol)	9.44	√	√	√
Isopentane	10.32	√	√	√	Methyl Methacrylate	9.74	√	√	√
Isoprene	8.85	√	√	√	Methyl Methanone	10.82	√		√
Isopropyl Acetate	9.99	√	√	√	2-Methylpentane	10.12	√	√	√
Isopropyl Alcohol	10.16	√	√	√	3-Methylpentane	10.08	√	√	√
Isopropylamine	8.72		√	√	2-Methylpropane	10.56	√	√	√
Isopropylbenzene	8.75	√	√	√	2-Methylpropanal	9.74	√	√	√
Isopropyl Ether	9.20	√	√	√	2-Methyl-2-propanol	9.70	√	√	√
Isovaleraldehyde	9.71	√	√	√	2-Methylpropene	9.23	√	√	√
Ketene	9.61	√	√	√	Methyl n-propyl Ketone	9.39	√	√	√
Mesitylene	8.40	√	√	√	Methyl Styrene	8.35	√	√	√
Mesityl Oxide	9.08	√	√	√	Monomethyl Hydrazine	8.00	√	√	√
Methane	12.98	√		√	Naphthalene	8.10	√	√	√
Methanol*	10.85	√		√	Nitric Oxide	9.25	√	√	
Methyl Acetate	10.27	√	√	√	Nitrobenzene	9.92		√	√
Methyl Acrylate	10.72	√		√	p-Nitrochlorobenzene	9.96		√	√
Methylamine	8.97		√	√	n-Nonane	10.21	√	√	√
Methyl Bromide (Bromomethane)	10.53	√	√	√	5-Nonanone	9.10	√	√	√
2-Methyl-1,3-butadiene	8.85	√	√	√	n-Octane	10.24	√	√	√
2-Methylbutanal	9.71	√	√	√	3-Octanone	9.19	√	√	√
2-Methylbutane	10.31	√	√	√	4-Octanone	9.10	√	√	√
2-Methyl-1-butene	9.12	√	√	√	1-Octene	9.52	√	√	√
3-Methyl-1-butene	9.51	√	√	√	n-Pentane	10.53	√	√	√
3-Methyl-2-butene	8.67	√	√	√	cis-1,3-Pentadiene	8.59	√	√	√
Methyl tert-Butyl Ether	9.41	√	√	√	trans-1,3-Pentadiene	8.56	√	√	√
Methyl n-Butyl Ketone	9.34	√	√	√	n-Pentanal	9.82	√	√	√
Methyl Butyrate	10.07	√	√	√	2,4-Pentanedione	8.87	√	√	√
Methyl Cellosolve	n.p.	√	√	√	2-Pentanone	9.39	√	√	√
Methyl Cellosolve Acetate	n.p.	√	√	√	3-Pentanone	9.32	√	√	√
Methyl Chloroacetate	10.35	√	√	√	1-Pentene	9.50	√	√	√
Methylchloroform (1,1,1-TCA)*	11.25	√	√	√	Perfluoro-2-butene*	11.25	√		√
Methylcyclohexane	9.85	√	√	√	Perfluoro-1-heptene	10.48	√	√	√
Methylcyclohexanol	9.80	√	√	√	n-Perfluoropropyl Iodide	10.36		√	√
Methylcyclohexanone	9.05	√	√	√	n-Perfluoropropyl-iodomethane	9.96	√	√	√
4-Methylcyclohexene	8.91	√	√	√	n-Perfluoropropyl-methyl Ketone	10.58	√	√	√
Methylcyclopropane	9.52	√	√	√	Phenol	8.69		√	√
Methyl Dichloroacetate	10.44	√	√	√	Phenyl Ether	8.09	√	√	√
Methyl Ethanoate	10.27	√	√	√	Phenyl Isocyanate	8.77	√	√	√
Methyl Ethyl Ketone (MEK)	9.53	√	√	√	Phosphine	9.96	√	√	
Methyl Ethyl Sulfide	8.55	√	√	√	Pinene	8.07	√	√	√
2-Methyl Furan	8.39	√	√	√	Propadiene	10.19	√	√	√
Methyl Iodide	9.54	√	√	√	n-Propional	9.95	√	√	√

COMPOUND	IONIZATION			COMPOUND	IONIZATION		
	POTENTIAL(eV)	GC	PID FID		POTENTIAL(eV)	GC	PID FID
Propene*	11.07	✓	✓ ✓	1,1,1-Trifluoro-2-iodoethane	10.10	✓	✓ ✓
1-Propanethiol	9.20	✓	✓ ✓	Trifluoroiodomethane	10.40	✓	✓ ✓
n-Propanol	10.51	✓	✓ ✓	Trifluoromethylbenzene	9.68	✓	✓ ✓
Propanone	9.69	✓	✓ ✓	Trifluoromethylcyclohexane	10.46	✓	✓ ✓
Propene	9.73	✓	✓ ✓	1,1,1-Trifluoropropene	10.90	✓	✓ ✓
Prop-1-ene-2-ol	8.70	✓	✓ ✓	Trimethylamine	7.82		✓ ✓
Prop-2-ene-1-ol	9.67	✓	✓ ✓	2,2,4-Trimethyl Pentane	9.86	✓	✓ ✓
Propionaldehyde	9.98	✓	✓ ✓	2,2,4-Trimethyl-3-pentanone	8.82	✓	✓ ✓
n-Propyl Acetate	10.04	✓	✓ ✓	n-Valeraldehyde	9.82	✓	✓ ✓
n-Propyl Alcohol	10.20	✓	✓ ✓	Vinyl Acetate	9.19	✓	✓ ✓
n-Propylamine	8.78		✓ ✓	Vinyl Bromide	9.80	✓	✓ ✓
n-Propylbenzene	8.72	✓	✓ ✓	Vinyl Chloride (Chloroethene)	10.00	✓	✓ ✓
Propylene	9.73	✓	✓ ✓	4-Vinylcyclohexene	8.93	✓	✓ ✓
Propylene Dichloride	10.87	✓	✓ ✓	Vinyl Ethanoate	9.19	✓	✓ ✓
Propylene Imine	8.76	✓	✓ ✓	Vinyl Fluoride	10.37	✓	✓ ✓
Propylene Oxide	10.22	✓	✓ ✓	Vinylidene Chloride (1,1-DCE)	10.00	✓	✓ ✓
n-Propyl Ether	9.27	✓	✓ ✓	Vinyl Methyl Ether	8.93	✓	✓ ✓
n-Propyl Formate	10.54	✓	✓ ✓	o-Vinyl Toluene	8.20		✓ ✓
Propyne	10.36	✓	✓ ✓	o-Xylene	8.56	✓	✓ ✓
Pyridine	9.32		✓ ✓	m-Xylene	8.56	✓	✓ ✓
Styrene	8.47	✓	✓ ✓	p-Xylene	8.45	✓	✓ ✓
Tetrabromoethane	n.p.	✓	✓ ✓	2,4-Xylydine	7.65		✓ ✓
Tetrachloroethylene (PCE)	9.32	✓	✓ ✓				
1,1,1,2-Tetrachloroethane	n.p.	✓	✓ ✓				
1,1,2,2-Tetrachloroethane	11.10	✓	✓ ✓				
Tetrafluoroethene	10.12	✓	✓ ✓				
Tetrahydrofuran	9.54	✓	✓ ✓				
1,1,1,2-Tetrachloropropane	n.p.	✓	✓ ✓				
1,2,2,3-Tetrachloropropane	n.p.	✓	✓ ✓				
Thioethanol	9.29	✓	✓ ✓				
Thiomethanol	9.44	✓	✓ ✓				
Thiophene	8.86	✓	✓ ✓				
1-Thiopropanol	9.20	✓	✓ ✓				
Toluene	8.82	✓	✓ ✓				
o-Toluidine	7.44	✓	✓ ✓				
Tribromoethene	9.27	✓	✓ ✓				
1,1,1-Trichlorobutanone	9.54	✓	✓ ✓				
1,1,1-Trichloroethane*	11.25	✓	✓ ✓				
1,1,2-Trichloroethane*	11.00	✓	✓ ✓				
Trichloroethylene (TCE)	9.45	✓	✓ ✓				
Trichloromethyl Ethyl Ether	10.08	✓	✓ ✓				
1,1,2-Trichloropropane	n.p.	✓	✓ ✓				
1,2,3-Trichloropropane	n.p.	✓	✓ ✓				
Triethylamine	7.50		✓ ✓				
1,2,4-Trifluorobenzene	9.37	✓	✓ ✓				
1,3,5-Trifluorobenzene	9.32	✓	✓ ✓				
Trifluoroethene	10.14	✓	✓ ✓				

*The sensitivity of the 2020, TIP, MicroTIP and GCs to these compounds may be enhanced using an 11.7 eV lamp instead of the standard 10.6 eV lamp energy.

n.p. - not published

GC = Voyager, 10S+, 10S70, 10S50, 10S30, 10S10 and 10A10
 PID = 2020, TIPI, TIPII, MicroTIP MP-100, HL-200, MP-1000, HL-2000 and IS-3000

Many compounds not appearing in this list, with an ionization potential of 12.0 eV or less, may also be detectable.

For further information, please contact the Technical Services/Applications Department at Photovac Monitoring Instruments.

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