



SENSIFLEX-PID

Detectable Gases and Vapors

SensFlex-PID is a fixed gas detector employing a powerful photoionization detector (PID) sensor that measures a broad range of volatile organic compounds (VOCs). The sensor is calibrated using isobutylene though the PID is a broadband VOC detector with a sensitivity that differs for each VOC. The table below will allow you to determine which gases/vapors SensFlex-PID can detect and assist you in calculating the concentration for your specific VOC. Response Factors are approximate values, for best accuracy calibrate with the relevant VOC.

How to use this chart: Find compound in left column and check for the Ionization Potential. If the Ionization Potential is less than 10.6 the gas can be measured with the SensFlex-PID 10.6eV sensor. If the Ionization Potential of the gas is greater than 10.6 but less than 11.7, it can be measured using the SensFlex-PID 11.7eV sensor. Identify the 10.6 or 11.7 Response Factor column to determine the sensitivity of the sensor to that gas; a lower Response Factor corresponds to a higher sensitivity to that gas. *Common synonyms for the gases and vapors are begin on page 17.*

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg. m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Acetaldehyde	C ₂ H ₄ O	75-07-0	10.23	4.9	4.0	0.79							2000	200	360
Acetic Acid	C ₂ H ₄ O ₂	64-17-7	10.66	36.2	4.0	1.05	15	10	37	25			50		
Acetic Anhydride	C ₄ H ₆ O ₃	108-24-7	10.14	4.0	2.9	1.08					5	20	200	5	20
Acetone	C ₃ H ₆ O	67-64-1	9.69	0.7	2.0	0.79		250		590			2500	1000	2400
Acetonitrile	CH ₃ CN	75-05-8	12.2	ZR	4.4	0.79		20		34			500	40	70
Acetylene	C ₂ H ₂	74-86-2	11.4	ZR	2.5	0.61					2500	2662	ND		
Acrolein	C ₃ H ₄ O	107-02-8	10.22	4.0	2.8	0.84	0.3	0.1	0.8	0.25			2	0.1	0.25
Acrylic Acid	C ₃ H ₄ O ₂	79-10-7	10.6	2.7	2.0	1.05		2		6			ND		
Acrylonitrile	C ₃ H ₃ N	107-13-1	10.91	ZR	3.0	0.81		1			10		85	2	
Allyl alcohol	C ₃ H ₆ O	107-18-6	9.63	2.1	2.5	0.85	4	2	10	5			20	2	5
Allyl chloride	C ₃ H ₅ Cl	107-05-1	10.05	4.5	2.9	0.94	2	1	6	3			250	1	3
Ammonia	NH ₃	7664-41-7	10.18	8.5	15.0	0.77	35	25	27	18			300	50	35
Amyl acetate, n-	C ₇ H ₁₄ O ₂	628-63-7	9.9	1.8	1.1	0.88		100		525			1000	100	525

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Detectable Gases/Vapors Continued

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Amyl alcohol	C ₅ H ₁₂ O	71-41-0	10.00	3.2	1.2	0.81									
Aniline	C ₆ H ₇ N	62-53-3	7.70	0.5	1.3	1.02							100	5	19
Anisole	C ₇ H ₈ O	100-66-3	8.21	0.5	1.3	1.00									
Argon	Ar	7440-37-1	9.89	ZR	5.1	5.73									
Arsine	AsH ₃	7784-42-1	9.89	2.5	5.1	5.73						0.002	3	0.05	0.2
Asphalt, petroleum fumes		8052-42-4	9	1.0	-										
Benzaldehyde	C ₇ H ₆ O	100-52-7	9.49	0.9	1.4	1.04									
Benzene	C ₆ H ₆	71-43-2	9.24	0.5	1.3	0.87	1	0.1					500	1	
Benzenethiol	C ₆ H ₅ SH	108-98-5	8.32	0.7	1.2	1.07					0.1	0.5	ND		
Benzonitrile	C ₇ H ₅ N	100-47-0	9.62	0.7	1.3	1.01									
Benzyl alcohol	C ₇ H ₈ O	100-51-6	8.26	1.3	1.3	1.05									
Benzyl chloride	C ₇ H ₇ Cl	100-44-7	9.14	0.6	1.1	1.10		1		5			10	1	5
Benzyl formate	C ₈ H ₈ O ₂	104-57-4	9.32	0.8	-	1.09									
Biphenyl	C ₁₂ H ₁₀	92-52-4	8.23	0.4	0.6	1.04		0.2		1			20	0.2	1
Bis(2,3-epoxypropyl) ether	C ₆ H ₁₀ O ₃	2238-07-5	9.6	3.0	-	0.99									
Boron trifluoride	BF ₃	7637 07 2	15.50	ZR	-	1.60									
Bromine	Br ₂	7726-95-6	10.55	20.0	-	3.12	0.3	0.1	2	0.7			3	0.1	0.7
Bromine pentafluoride	BrF ₅	7789-30-2	13.17	ZR	-	2.48		0.1		0.7			ND		
Bromobenzene	C ₆ H ₅ Br	108-86-1	8.98	0.7	6.0	1.49									
Bromochloromethane	CH ₂ ClBr	74-97-5	10.77	ZR	-	1.93		200		1050			2000	200	1050
Bromoethane	C ₂ H ₅ Br	74-96-4	10.29	5.0	6.8	1.46							2000	200	890
Bromoethyl methyl ether, 2-	C ₃ H ₇ OBr	6482-24-2	10.00	2.5	-	1.48									
Bromoform	CHBr ₃	75-25-2	10.48	2.8	-	2.89		0.5		5			850	0.5	5
Bromopropane, 1-	C ₃ H ₇ Br	106-94-5	10.18	1.3	4.6	1.35									
Bromotrifluoromethane	CF ₃ Br	75-63-8	11.78	ZR	-	2.01		1000		6100			40000	1000	6100
Butadiene	C ₄ H ₆	106-99-0	9.07	0.8	2.0	0.61							2000	1	
Butadiene diepoxide, 1,3-	C ₄ H ₆ O ₂	1464-53-5	10.00	4.0	-	1.11									
Butane, n-	C ₄ H ₁₀	106-97-8	10.63	46.0	1.6	0.57		800		1900			ND		
Butanol, 1-	C ₄ H ₁₀ O	71-36-3	10.04	4.0	1.4	0.81					50	150	1400	100	300
Buten-3-ol, 1-	C ₄ H ₈ O	598-32-3	9.2	1.2	-	0.83									
Butene, 1-	C ₄ H ₈	106-98-9	9.58	1.3	1.6	0.59									

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Butoxyethanol, 2-	C ₆ H ₁₄ O ₂	111-76-2	8.6	1.1	1.1	0.90		5		24			700	50	240
Butyl acetate, n-	C ₆ H ₁₂ O ₂	123-86-4	10	2.4	1.7	0.88	200	150	950	710			1700	150	710
Butyl acrylate, n-	C ₇ H ₁₂ O ₂	141-32-2	8.6	1.5	1.5	0.89		10		55			ND		
Butyl lactate	C ₇ H ₁₄ O ₃	138-22-7	9.8	2.5	1.2	0.98		5		25			ND		
Butyl mercaptan	C ₄ H ₁₀ S	109-79-5	9.15	0.5	-	0.84					0.5	1.8	500	10	35
Butylamine, 2-	C ₄ H ₁₁ N	513-49-5	8.6	0.9	-	0.72									
Butylamine, n-	C ₄ H ₁₁ N	109-73-9	8.71	1.0	1.7	0.74					5	15	300		
Camphene	C ₁₀ H ₁₆	565-00-4	8.1	0.5	-	0.85									
Carbon dioxide	CO ₂	124-38-9	13.77	ZR	-	1.93	30000	5000	54000	9000			40000	5000	9000
Carbon disulfide	CS ₂	75-15-0	10.08	1.4	1.3	1.26	10	1	30	3			500	20	
Carbon monoxide	CO	630-08-0	14.01	ZR	12.5	1.23		35		40	200	229	1200	50	55
Carbon tetrabromide	CB ₄	558-13-4	10.31	3.0	-	3.42	0.3	0.1	4	1.4			ND		
Carbon tetrachloride	CCl ₄	56-23-5	11.47	ZR	-	1.59	2		12.6				200	10	63
Carbonyl sulfide	COS	463-58-1	11.18	ZR	11.9	2.64									
Carvone, R-	C ₁₀ H ₁₄ O	6485-40-1	9.1	1.0	-	0.96									
Chlorine	Cl ₂	7782-50-5	11.48	ZR	-	3.11					0.5	1.45	10	1	3
Chlorine dioxide	ClO ₂	10049-04-4	10.36	1.0	> 10	2.96	0.3	0.1	0.9	0.3			5	0.1	0.3
Chlorine trifluoride	ClF ₃	7790-91-2	12.65	ZR	-	4.06					0.1	0.4	20	0.1	
Chloro-1,1,1,2-tetrafluoroethane, 2-	C ₂ HClF ₄	2837-89-0	11.8	ZR	-	1.36									
Chloro-1,1,1-trifluoroethane, 2-	C ₂ H ₂ ClF ₃	75-88-7	11.7	ZR	-	1.39									
Chloro-1,1,2,2-tetrafluoroethane, 1-	C ₂ HClF ₄	354-25-6	11.5	ZR											
Chloro-1,1,2-trifluoroethane, 1-	C ₂ H ₂ ClF ₃	421-04-5	11.8	ZR											
Chloro-1,1-difluoroethane, 1-	C ₂ H ₃ ClF ₂	75-68-3	12.00	ZR	6.2	1.11									
Chloro-1,1-difluoroethane, 1-	C ₂ H ₃ ClF ₂	75-68-3	11.98	ZR	6.2	1.11									
Chloro-1,1-difluoroethane, 2-	C ₂ H ₃ ClF ₂	338-65-8	11.8	ZR											
Chloro-1,2,2-trifluoroethane, 1-	C ₂ H ₂ ClF ₃	431-07-2	11.5	ZR											
Chloro-1,3-butadiene, 2-	C ₄ H ₅ Cl	126-99-8	8.79	3.2	1.9	0.96									
Chloro-1-fluoroethane, 1-	C ₂ H ₄ ClF	1615-75-4	11.3	ZR											
Chloro-2-fluoroethane, 1-	C ₂ H ₄ ClF	762-50-5	11.3	ZR											
Chloroacetaldehyde	C ₂ H ₃ OCl	107-20-0	10.61	ZR	5.7	1.19					1	3	45	1	3
Chlorobenzene	C ₆ H ₅ Cl	108-90-7	9.07	0.5	1.3	1.11							1000	75	350

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Chlorodifluoromethane	CHClF ₂	75-45-6	12.45	ZR	-	1.41	1250	1000	4375	3500			ND		
Chloroethane	C ₂ H ₅ Cl	75-00-3	10.97	ZR	3.8	0.92							3800	1000	2600
Chloroethanol 2-	C ₂ H ₅ ClO	107-07-3	10.5	10.0	4.9	1.20					1	3	7	5	16
Chloroethyl methyl ether, 2-	C ₃ H ₇ ClO	627-42-9	9	2.6	-	1.04									
Chlorofluoromethane	CH ₂ ClF	593-70-4	11.71	ZR	-										
Chloroform	CHCl ₃	67-66-3	11.42	ZR	-	1.48	2		9.78				500	50	240
Chloromethane	CH ₃ Cl	74-87-3	11.28	ZR	8.1	0.92							2000	100	
Chloropentafluoroethane	C ₂ ClF ₅	76-15-3	12.96	ZR	-	1.29		1000		6320			ND	1000	6320
Chlorotoluene, o-	C ₇ H ₇ Cl	95-49-8	8.83	0.5	1.3	1.08	75	50	375	250			ND		
Chlorotoluene, p-	C ₇ H ₇ Cl	108-41-8	8.69	0.5	-	1.07									
Chlorotrifluoroethylene	C ₂ ClF ₃	79-38-9	9.81	1.0	8.4	1.31									
Chlorotrifluoromethane	CClF ₃	75-72-9	12.60	ZR	-	1.07									
Citral	C ₁₀ H ₁₆ O	5392-40-5	8.7	1.0	-	0.89									
Citronellol	C ₁₀ H ₂₀ O	26489-01-0	8.5	1.0	-	0.86									
Cresol, m-	C ₇ H ₈ O	108-39-4	8.97	1.1	1.1	1.03		2.3		10			250	5	22
Cresol, o-	C ₇ H ₈ O	95-48-7	8.97	1.1	1.5	1.05		2.3		10			250	5	22
Cresol, p-	C ₇ H ₈ O	106-44-5	8.97	1.1	1.1	1.03		2.3		10				5	22
Crotonaldehyde	C ₄ H ₆ O	4170-30-3	9.73	1.0	2.1	0.85		2		6			50	2	6
Cumene	C ₉ H ₁₂	98-82-8	8.75	0.6	0.9	0.86		50		245			900	50	245
Cyanamide	CH ₂ N ₂	420-04-2	10.65	ZR	-	1.28			2	2			ND		
Cyanogen bromide	CNBr	506-68-3	11.84	ZR	-	2.02									
Cyanogen chloride	CNCl	506-77-4	12.49	ZR	-	1.19					0.3	0.6	ND		
Cyclohexane	C ₆ H ₁₂	110-82-7	9.86	1.3	1.0	0.78		300		1050			1300	300	1050
Cyclohexanol	C ₆ H ₁₂ O	108-93-0	10.00	2.9	1.3	0.95		50		200			400	50	200
Cyclohexanone	C ₆ H ₁₀ O	108-94-1	9.40	1.1	1.1	0.95		25		100			700	50	200
Cyclohexene	C ₆ H ₁₀	110-83-8	8.95	0.8	1.2	0.81		300		1015			2000	300	1015
Cyclohexylamine	C ₆ H ₁₃ N	108-91-8	8.37	1.0	1.2	0.87		10		40			ND		
Cyclopentane	C ₅ H ₁₀	287-92-3	10.52	4.0	1.1	0.75		600		1720			ND		
Decane, n-	C ₁₀ H ₂₂	124-18-5	9.65	1.0	0.8	0.73									
Deuterium oxide	D ₂ O	7789-20-0	13.6	ZR		1.10									
Diacetone alcohol	C ₆ H ₁₂ O ₂	123-42-2	9	0.8	1.8	0.93		50		240			1800	50	240

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Dibenzoyl peroxide	C ₁₄ H ₁₀ O ₄	94-36-0	9	0.8	-	1.33									
Diborane	B ₂ H ₆	19287-45-7	11.38	ZR	0.8	1.21		0.1					15	0.1	0.1
Dibromochloromethane	CHBr ₂ Cl	124-48-1	10.59	10.0	-	2.45									
Dibromodifluoromethane	CF ₂ Br ₂	75-61-6	11.07	ZR	-	2.29		100		860			2000	100	860
Dibromoethane, 1,2-	C ₂ H ₄ Br ₂	106-93-4	9.45	2.0	-	2.17		0.045			0.13		100	20	
Dibromotetrafluoroethane, 1,2-	C ₂ F ₄ Br ₂	124-73-2	11.1	ZR	-	2.20									
Dibutyl hydrogen phosphate	HC ₈ H ₁₈ PO ₄	107-66-4	10	4.0	-	1.06	2	1	10	5			30	1	5
Dichloro-1,1,1-trifluoroethane, 2,2-	C ₂ HCl ₂ F ₃	306-83-2	11	ZR	-										
Dichloro-1,1-difluoroethane, 1,2-	C ₂ H ₂ Cl ₂ F ₂	1649-08-7	11	ZR	-										
Dichloro-1,2,2-trifluoroethane, 1,2-	C ₂ HCl ₂ F ₃	354-23-4	11	ZR											
Dichloro-1,2-difluoroethane, 1,2-	C ₂ H ₂ Cl ₂ F ₂	631-06-1	11	ZR											
Dichloro-1-fluoroethane, 1,1-	C ₂ H ₃ Cl ₂ F	1717-00-6	11	ZR	7.6	1.23									
Dichloro-1-fluoroethane, 1,1-	C ₂ H ₃ Cl ₂ F	1717-00-6	11	ZR	7.6	1.25									
Dichloro-1-fluoroethane, 1,2-	C ₂ H ₃ Cl ₂ F	430-57-9	11	ZR											
Dichloro-1-propene, 2,3-	C ₃ H ₄ Cl ₂	78-88-6	10.5	1.4	2.6	1.20									
Dichloro-2,2,-difluoroethane, 1,1-	C ₂ H ₂ Cl ₂ F ₂	79-35-6	11.5	ZR	-										
Dichloroacetylene	C ₂ Cl ₂	7572-29-4	9.9	5.0		1.26					0.1	0.4	ND		
Dichlorobenzene o-	C ₆ H ₄ Cl ₂	95-50-1	9.06	0.5	2.2	1.30					50	300	200		
Dichlorodifluoromethane	CCl ₂ F ₂	75-71-8	11.75	ZR	-	1.35		1000		4950			15000	1000	4950
Dichloroethane, 1,2-	C ₂ H ₄ Cl ₂	107-06-2	11.05	ZR	6.2	1.24	2	1	8	4			50	50	200
Dichloroethane, 1,1-	C ₂ H ₄ Cl ₂	75-34-3	11.06	ZR	5.4	1.18		100		400			3000	100	400
Dichloroethene, 1,1-	C ₂ H ₂ Cl ₂	75-35-4	10	1.0	6.5	1.21							ND		
Dichloroethene, cis-1,2-	C ₂ H ₂ Cl ₂	156-59-2	9.66	0.8	9.7	1.28							1000		
Dichloroethene, trans-1,2-	C ₂ H ₂ Cl ₂	540-59-0	9.65	0.7	9.7	1.26							1000		
Dichloroethylene, 1,2-	C ₂ H ₂ Cl ₂	540-59-0	9.65	0.8	9.7	1.27		200		790			1000	200	790
Dichlorofluoromethane	CHFCl ₂	75-43-4	12.39	ZR	-	1.48		10		40			5000	1000	4200
Dichloromethane	CH ₂ Cl ₂	75-09-2	11.32	39	15.5	1.33									
Dichloropropane, 1,2-	C ₃ H ₆ Cl ₂	78-87-5	10.87	ZR	3.4	1.16									
Dichlorotetrafluoroethane, 1,1-	C ₂ Cl ₂ F ₄	374-07-2	12.2	ZR	-										
Dichlorotetrafluoroethane, 1,2-	C ₂ Cl ₂ F ₄	76-14-2	12.2	ZR	-	1.53									
Dicyclopentadiene	C ₁₀ H ₁₂	77-73-6	8	0.9	0.8	0.98									

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Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg.m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Diesel Fuel		68334-30-5	8	0.8											
Diethyl ether	C ₄ H ₁₀ O	60-29-7	9.53	0.9	1.8	0.71							1900	400	1200
Diethyl maleate	C ₈ H ₁₂ O ₄	141-05-9	10	2.0	1.1	1.06									
Diethyl phthalate	C ₁₂ H ₁₄ O ₄	84-66-2	9	1.0	0.7	1.12			5				ND		
Diethyl sulfate	C ₄ H ₁₀ SO ₄	64-67-5		3.0	4.1	1.18									
Diethyl sulfide	C ₄ H ₁₀ S	352-93-2	8.43	0.6	2.2	0.84									
Diethylamine	C ₄ H ₁₁ N	109-89-7	8.01	1.0	1.8	0.71	25	10	75	30			200	25	75
Diethylaminoethanol, 2-	C ₆ H ₁₅ ON	100-37-8	9	2.7	6.7	0.89		10		50			100	10	50
Diethylaminopropylamine, 3-	C ₇ H ₁₈ N ₂	104-78-9	9	1.0	1.4	0.83									
Difluoroethane, 1,1-	C ₂ H ₄ F ₂	75-37-6	11.87	ZR	3.7	1.00									
Difluoroethane, 1,2-	C ₂ H ₄ F ₂	624-72-6	12	ZR	4.6										
Difluoromethane	CH ₂ F ₂	75-10-5	12.71	ZR	27.2	1.10									
Dihydrogen selenide	H ₂ Se	7783 07 5	9.88	1.0	-	2.12									
Dihydroxybenzene, 1,2	C ₆ H ₆ O ₂	120-80-9	9	1.0	1.4	1.34		5		20			ND		
Dihydroxybenzene, 1,3	C ₆ H ₆ O ₂	108-46-3	8.63	1.0	1.4	1.27	20	10	90	45			ND		
Diisobutylene	C ₈ H ₁₆	107-39-1	8.8	0.6	0.9	0.72									
Diisopropyl ether	C ₆ H ₁₄ O	108-20-3	9.20	0.7	1.0	0.73		500		2100			1400	500	2100
Diisopropylamine	C ₆ H ₁₅ N	108-18-9	7.73	0.7	1.1	0.72		5		20			200	5	20
Diketene	C ₄ H ₄ O ₂	674-82-8	9.60	2.2	2.5	1.09									
Dimethoxymethane	C ₃ H ₈ O ₂	109-87-5	9.7	1.4	1.6	0.86		1000		3100			2200	1000	3100
Dimethyl cyclohexane, 1,2-	C ₈ H ₁₆	583-57-3	9.41	1.1	-	0.78									
Dimethyl disulfide	C ₂ H ₆ S ₂	624-92-0	7.40	0.2	1.1	1.05									
Dimethyl ether	C ₂ H ₆ O	115-10-6	10.03	1.3	3.4	0.72									
Dimethyl phthalate	C ₁₀ H ₁₀ O ₄	131-11-3	9.64	1.0	0.9	1.19									
Dimethyl sulfate	C ₂ H ₆ O ₄ S	77-78-1	12	ZR	3.6	1.33		0.1		0.5			7	1	5
Dimethylacetamide N,N-	C ₄ H ₉ NO	127-19-5	8.81	1.3	1.8	0.94									
Dimethylamine	C ₂ H ₇ N	124-40-3	8.24	1.4	2.8	0.68		10		18			500	10	18
Dimethylaminoethanol	C ₄ H ₁₁ NO	108-01-0	9	1.5	1.7	0.89									
Dimethylaniline, NN-	C ₈ H ₁₁ N	121-69-7	7.12	0.6	1.0	0.96	10	5	50	25			100	5	25
Dimethylbutyl acetate	C ₈ H ₁₆ O ₂	108-84-9	7.74	1.6		1									
Dimethylethylamine, NN-	C ₄ H ₁₁ N	598-56-1	8.5	0.8	-	0.68									

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Detectable Gases/Vapors Continued

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg.m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Dimethylformamide	C ₃ H ₇ NO	68-12-2	9.13	0.9	2.2	0.95		10		30			500	10	30
Dimethylheptan-4-one, 2,6-	C ₉ H ₁₈ O	108-83-8	9.04	0.8	0.8	0.81									
Dimethylhydrazine, 1,1-	C ₂ H ₈ N ₂	57-14-7	8.05	1.0	2.0	0.79		0.06		0.15			15	0.5	1
Dinitrobenzene, m-	C ₆ H ₄ N ₂ O ₄	99-65-0	10.43	3.0	-	1.58				1					1
Dinitrobenzene, o-	C ₆ H ₄ N ₂ O ₄	528-29-0	10.71	ZR	1.8	1.57				1					1
Dinitrobenzene, p-	C ₆ H ₄ N ₂ O ₄	100-25-4	10.5	5.0	1.8	1.63				1					1
Dinonyl phthalate	C ₂₆ H ₄₂ O ₄	84-76-4	9.19	1.0	-	0.97									
Dioxane 1,2-	C ₄ H ₈ O ₂		9.2	1.5											
Dioxane 1,4-	C ₄ H ₈ O ₂	123-91-1	9.13	1.5	2.0	1.03		100		360	1	3.6	500		
Dipentene	C ₁₀ H ₁₆	138-86-3	8.6	0.9		0.85									
Diphenyl ether	C ₁₂ H ₁₀ O	101-84-8	8.09	0.8	0.7	1.08									
Disulfur decafluoride	S ₂ F ₁₀	5714-22-7	12.77	ZR	-	2.08					0.01	0.1	1	0.025	0.25
Disulfur dichloride	S ₂ Cl ₂	10025-67-9	10	3.0	-	1.69									
Di-tert-butyl-p-cresol	C ₁₁ H ₁₆ O	2409-55-4	8.3	1.0	-	1.05			10				ND		
Divinylbenzene	C ₁₀ H ₁₀	1321-74-0	8.2	0.4	1.1	0.93		10		50			ND		
Dodecanol	C ₁₂ H ₂₆ O	112-53-8	9.8	0.9		0.83									
Enflurane	C ₄ H ₂ F ₅ ClO	13838-16-9	11	ZR	-	1.52					2	15.1	ND		
Epichlorohydrin	C ₃ H ₅ ClO	106-89-8	10.20	8.0	3.8	1.18							75	5	19
Epoxypropyl isopropyl ether, 2,3-	C ₆ H ₁₂ O ₂	4016-14-2	10	1.1	-	0.92									
Ethane	C ₂ H ₆	74-84-0	11.56	ZR	2.9										
Ethanol	C ₂ H ₆ O	64-17-5	10.43	8.7	3.3	0.82		1000		2900			3300	1000	3900
Ethanolamine	C ₂ H ₇ NO	141-43-5	10.47	3.0	2.5	1.01	6	3	15	8			30	3	8
Ethoxy-2-propanol, 1-	C ₅ H ₁₀ O ₂	1569-02-4	9.6	2.0		0.90									
Ethoxyethanol, 2-	C ₄ H ₁₀ O ₂	110-80-5	9.6	29.8	1.8	0.93		0.5		1.8			500	200	740
Ethoxyethyl acetate, 2-	C ₆ H ₁₂ O ₃	111-15-9	10	3.0	1.7	0.98		0.5		2.7			500	100	540
Ethyl (S)-(-)-lactate	C ₅ H ₁₀ O ₃	97-64-3	10.00	3.0	1.5	1.03									
Ethyl acetate	C ₄ H ₈ O ₂	141-78-6	10.01	3.6	2.2	0.90		400		1400			2000	400	1400
Ethyl acrylate	C ₅ H ₈ O ₂	140-88-5	10.30	2.0	1.4	0.92							300	25	100
Ethyl amine	C ₂ H ₇ N	75-04-7	8.86	1.0	3.5	0.69		10		18			600	10	18
Ethyl benzene	C ₈ H ₁₀	100-41-4	8.76	0.5	0.8	0.87	125	100	545	435			800	100	435
Ethyl butyrate	C ₆ H ₁₂ O ₂	105-54-4	9.9	1.0	1.3	0.88									

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Detectable Gases/Vapors Continued

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg. m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Ethyl chloroformate	C ₃ H ₅ O ₂ Cl	541-41-3	10.64	83.0	3.5	1.14									
Ethyl cyanoacrylate	C ₆ H ₇ O ₂ N	7085-85-0	10	1.5	-	1.06									
Ethyl decanoate	C ₁₂ H ₂₄ O ₂	110-38-3	9.6	1.8	-	0.86									
Ethyl formate	C ₃ H ₆ O ₂	109-94-4	10.61	29.8	2.8	0.92		100		300			1500	100	300
Ethyl hexanoate	C ₈ H ₁₆ O ₂	123-66-0	9.75	2.6	-	0.87									
Ethyl hexanol, 2-	C ₈ H ₁₈ O	105-76-7	9.8	1.5	9.7	0.83									
Ethyl hexyl acrylate, 2-	C ₁₁ H ₂₀ O ₂	103-11-7	9.00	1.0	0.7	0.89									
Ethyl mercaptan	C ₂ H ₆ S	75-08-1	9.29	0.7	2.8	0.84					0.5	1.3	500		
Ethyl octanoate	C ₁₀ H ₂₀ O ₂	106-32-1	9.7	2.3	-	0.87									
Ethylene	C ₂ H ₄	74-85-1	10.51	8.0	2.7	0.57									
Ethylene dinitrate	C ₂ H ₄ O ₆ N ₂	628-96-6	10.8	ZR	-	1.49				0.1					
Ethylene glycol	C ₂ H ₆ O ₂	107-21-1	10.16	20.0	3.2	1.11							ND		
Ethylene oxide	C ₂ H ₄ O	75-21-8	10.56	15.0	3.0	0.82		0.1		0.18	5	9	800	1	5
Ferrocene	C ₁₀ H ₁₀ Fe	102-54-5	6.88	0.8	-				10				ND		15
Fluorine	F ₂	7782-41-4	15.697	ZR	-	1.67		0.1		0.2			25	0.1	0.2
Fluoroethane	C ₂ H ₅ F	353-33-6	11.78	ZR	-										
Fluoromethane	CH ₃ F	593-53-3	12.47	ZR	-	0.88									
Formaldehyde	CH ₂ O	50-00-0	10.87	ZR	7.0	1.08		0.016			0.1		20	0.75	
Formamide	CH ₃ ON	75-12-7	10.2	2.0	7.0	1.13		10		15			ND		
Formic acid	CH ₂ O ₂	64-18-6	11.05	ZR	18.0	1.22		5		9			30	5	9
Furfural	C ₅ H ₄ O ₂	98-01-1	9.21	1.4	2.1	1.16							100	5	20
Furfuryl alcohol	C ₅ H ₆ O ₂	98-00-0	9.9	2.0	1.8	1.13	15	10	60	40			75	50	200
Gasoline vapors		8006-61-9	9.9	0.8	1.4	0.74							ND		
Gasoline vapors 92 octane		8006-61-9	9.9	0.8	1.4	0.74							ND		
Germane	GeH ₄	7782-65-2	11.34	10.0	-	3.36		0.2		0.6			ND		
Glutaraldehyde	C ₅ H ₈ O ₂	111-30-8	9.6	0.9	-	1.10		0.2		0.8			ND		
Halothane	CF ₃ CHBrCl	151-67-7	11.00	ZR	-	1.87					2	16.2	ND		
Helium	He		24.58741	ZR	-										
Heptan-2-one	C ₇ H ₁₄ O	110-43-0	9.33	0.7	1.1	0.81		100		465			800	100	465
Heptan-3-one	C ₇ H ₁₄ O	106-35-4	9.02	0.8	1.4	0.82		50		230			1000	50	230
Heptane n-	C ₇ H ₁₆	142-82-5	9.92	2.1	1.1	0.68		85		350	440	1800	750	500	2000

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Detectable Gases/Vapors Continued

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg. m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Hexachloroethane	C ₂ Cl ₆	67-72-1	11.22	ZR	-	2.09		1		10			300	1	10
Hexafluoroethane	C ₂ F ₆	76-16-4	13.60	ZR	-	1.59									
Hexamethyldisilazane, 1,1,1,3,3,3-	C ₆ H ₁₉ NSi ₂	999-97-3	8.6	1.0	0.8	0.77									
Hexamethyldisiloxane.	C ₆ H ₁₈ OSi ₂	107-46-0	9	0.3		0.76									
Hexan-2-one	C ₆ H ₁₂ O	591-78-6	9.34	0.8	1.2	0.81		1		4			1600	100	410
Hexane n-	C ₆ H ₁₄	110-54-3	10.13	4.2	1.2	0.66		50		180			1100	500	1800
Hexene, 1-	C ₆ H ₁₂	592-41-6	9.44	0.9	1.2	0.67									
Hydrazine	H ₄ N ₂	302-01-2	8.93	3.0	2.9	1.01					0.03	0.04	50	1	1.3
Hydrazoic acid	HN ₃	7782-79-8	10.72	ZR	-										
Hydrogen	H ₂	1333-74-0	15.43	ZR	4.0	0.09									
Hydrogen bromide	HBr	10035-10-6	11.62	ZR	-	3.55					3	10	30	3	10
Hydrogen chloride	HCl	7647-01-0	12.74	ZR	-	1.20					5	7	50		
Hydrogen cyanide	HCN	74-90-8	13.60	ZR	5.6	0.69	4.7			5			50	10	11
Hydrogen fluoride	HF	7664-39-3	15.98	ZR	-	1.15		3		2.5	6	5	30	3	2.5
Hydrogen peroxide	H ₂ O ₂	7722-84-1	10.54	4.0	-	1.39		1		1.4			75	1	1.4
Hydrogen sulfide	H ₂ S	7783-06-4	10.46	4.0	4.3	1.50					10	15	100		
Hydroquinone	C ₆ H ₆ O ₂	123-31-9	7.94	0.8	1.6	1.33						2			
Hydroxypropyl acrylate 2-	C ₆ H ₁₀ O ₃	999-61-1	9	1.5	1.8	1.05		0.5		3			ND		
Iminodi(ethylamine) 2,2-	C ₄ H ₁₃ N ₃	111-40-0	9	0.9	2.0	0.95									
Iminodiethanol 2,2'-	C ₄ H ₁₁ NO ₂	111-42-2	9	1.6	1.6	1.10		3		15			ND		
Indene	C ₉ H ₈	95-13-6	8.81	0.5	1.0	1.00		10		45			ND		
Iodine	I ₂	7553-56-2	9.31	0.2	-	4.93		0.1		1			2	0.1	1
Iodoform	CHI ₃	75-47-8	9.25	1.5	-	4.01		0.6		10			ND		
Iodomethane	CH ₃ I	74-88-4	9.54	0.4	-	2.28		2		10			100	5	28
Isoamyl acetate	C ₇ H ₁₄ O ₂	123-92-2		1.6	1.0	0.88		100		525			1000	100	525
Isobutane	C ₄ H ₁₀	75-28-5	10.57	8.0	1.8	0.55		800		1900			ND		
Isobutanol	C ₄ H ₁₀ O	78-83-1	10.12	3.5	1.7	0.80		50		150			1600	100	300
Isobutyl acetate	C ₆ H ₁₂ O ₂	110-19-0	9.90	2.3	1.3	0.87		150		700			1300	150	700
Isobutyl acrylate	C ₇ H ₁₂ O ₂	106-63-8	9.50	1.3	2.0	0.89									
Isobutylene	C ₄ H ₈	115-11-7	9.24	1.0	1.6	0.59									
Isobutyraldehyde	C ₄ H ₈ O	78-84-2	9.00	1.2	2.0	0.79									

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Isocyanates, all			10	NV											
Isodecanol	C ₁₀ H ₂₂ O	25339-17-7	9.8	0.9	4.5	1.00									
Isoflurane	C ₃ H ₂ ClF ₅ O	26675-46-7	11	ZR	-	1.45									
Isononanol	C ₉ H ₂₀ O	2452-97-9	9.8	1.5		0.83									
Isooctane	C ₈ H ₁₈	565-75-3	9.86	1.1	~1	0.72									
Isooctanol	C ₈ H ₁₈ O	26952-21-6	9.8	1.7	5.7	0.83									
Isopentane	C ₅ H ₁₂	78-78-4	10.32	6.0	1.4	0.62									
Isophorone	C ₉ H ₁₄ O	78-59-1	9.07	0.8	0.8	0.92		4		23			200	25	140
Isoprene	C ₅ H ₈	78-79-5	8.85	0.7	1.5	0.68									
Isopropanol	C ₃ H ₈ O	67-63-0	10.17	4.4	2.5	0.79									
Isopropyl acetate	C ₅ H ₁₀ O ₂	108-21-4	9.99	2.2	1.8	0.87							1800	250	950
Isopropyl chloroformate	C ₄ H ₇ O ₂ Cl	108-23-6	10.2	1.6	4.0	0.89									
Jet Fuel JP-4			9	0.8											
Jet Fuel JP-5			9	0.7											
Jet Fuel JP-8			9	0.7											
Kerosene		8008-20-6	8	0.8	0.7	0.81				100			ND		
Ketene	C ₂ H ₂ O	463-51-4	9.617	3.0	-										
Krypton	Kr	7439-90-9	13.9996	ZR		0.00									
Liquefied petroleum gas		68476-85-7	10.95	ZR	2.0			1000		1800			2000	1000	1800
Maleic anhydride	C ₄ H ₂ O ₃	108-31-6	9.9	2.0	1.4	1.48		0.25		1			2.5	0.25	1
Mercaptoacetic acid	C ₂ H ₄ O ₂ S	68-11-1	9.8	1.0	5.9	1.32									
Mercury	Hg	7439-97-6	10.4375	NV	-	13.60						0.1			0.05
Mercury alkyls				NV											
Mesitylene	C ₉ H ₁₂	108-67-8	8.41	0.3	0.9	0.86									
Methacrylic acid	C ₄ H ₆ O ₂	79-41-4	10.15	2.3	1.6	1.02		20		70			ND		
Methacrylonitrile	C ₄ H ₅ N	126-98-7	10.34	5.0	2.0	0.80		1		3			ND		
Methane	CH ₄	74-82-8	12.51	ZR	5.0	0.72									
Methanol	CH ₃ O	67-56-1	10.85	200.0	6.0	0.79	250	200	325	260			6000	200	260
Methoxyethanol, 2-	C ₃ H ₈ O ₂	109-86-4	9.60	2.7	1.8	0.96		0.1		0.3			200	25	80
Methoxyethoxyethanol, 2-	C ₅ H ₁₂ O ₃	111-77-3	10.00	1.4	1.4	1.01									
Methoxymethylethoxy-2-propanol	C ₇ H ₁₆ O ₃	34590-94-8	9.3	1.3		0.95									

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Detectable Gases/Vapors Continued

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg. m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Methoxypropan-2-ol	C ₄ H ₁₀ O ₂	107-98-2	9.4	3.0	1.8	0.92	150	100	540	360			ND		
Methoxypropyl acetate	C ₆ H ₁₂ O ₃	108-65-6	9	1.2	1.3	0.97									
Methyl acetate	C ₃ H ₆ O ₂	79-20-9	10.27	5.2	3.1	0.93	250	200	760	610			3100	200	610
Methyl acrylate	C ₄ H ₆ O ₂	96-33-3	10.25	3.4	2.8	0.96		10		35			250	10	35
Methyl bromide	CH ₃ Br	74-83-9	10.54	1.9	10.0	3.30							250	20	80
Methyl cyanoacrylate	C ₅ H ₅ O ₂ N	137-05-3	10	5.0	-	1.10	4	2	16	8			ND		
Methyl ethyl ketone	C ₄ H ₈ O	78-93-3	9.51	0.8	1.8	0.81	300	200	885	590			3000	200	590
Methyl ethyl ketone peroxides	C ₈ H ₁₈ O ₂	1338-23-4		0.8	-	1.12					0.2	1.5			
Methyl formate	C ₂ H ₄ O ₂	107-31-3	10.82	ZR	4.5	0.98	150	100	375	350			4500		
Methyl isobutyl ketone	C ₆ H ₁₂ O	108-10-1	9.30	0.8	1.2	0.80	75	50	300	205			500	100	410
Methyl isocyanate	C ₂ H ₃ NO	624-83-9	10.67	ZR	5.3	0.96		0.02		0.05			3	0.02	0.05
Methyl isothiocyanate	C ₂ H ₃ NS	556-61-6	9.25	0.6	-	1.07									
Methyl mercaptan	CH ₂ S	74-93-1	9.44	0.7	3.9	0.90					0.5	1	150		
Methyl methacrylate	C ₅ H ₈ O ₂	80-62-6	9.70	1.6	1.7	0.94		100		410			1000	100	410
Methyl salicylate	C ₈ H ₈ O ₃	119-36-8	9.7	1.2	1.2	1.18									
Methyl sulfide	C ₂ H ₆ S	75-18-3	8.69	0.5	2.2	0.85									
Methyl t-butyl ether	C ₅ H ₁₂ O	1634-04-4	9.24	0.8	1.6	0.74									
Methyl-2-propen-1-ol, 2-	C ₄ H ₈ O	51-42-8	9.6	1.1	-	0.86									
Methyl-2-pyrrolidinone, N-	C ₅ H ₉ NO	872-50-4	9.17	0.9	1.3	1.03									
Methyl-4,6-dinitrophenol, 2-	C ₇ H ₆ N ₂ O ₅	534-52-1	9.1	3.0	-	1.58									
Methyl-5-hepten-2-one, 6-	C ₈ H ₁₄ O	110-93-0	9.4	0.8	-	0.86									
Methylamine	CH ₃ N	74-89-5	8.97	1.4	4.9	0.70		10		12			100	10	12
Methylbutan-1-ol, 3-	C ₅ H ₁₂ O	123-51-3	9.8	3.4	1.2	0.81	125	100	500	360			500	125	450
Methylcyclohexane	C ₇ H ₁₄	108-87-2	9.85	1.1	1.2	0.77		400		1600			1200	500	2000
Methylcyclohexanol, 4-	C ₇ H ₁₄ O	589-91-3	9.8	2.4	1.3	0.92		50		235			500	100	470
Methylcyclohexanone 2-	C ₇ H ₁₂ O	583-60-8	9.2	1.0	12.0	0.93	75	50	345	230			600	100	460
Methylheptan-3-one, 5-	C ₈ H ₁₆ O	541-85-5	9.1	0.8	-	0.82		25		130			100	25	130
Methylhexan-2-one, 5-	C ₇ H ₁₄ O	110-12-3	9.28	0.8	1.0	0.81		50		240			ND	100	480
Methylhydrazine	CH ₆ N ₂	60-34-4	8.00	1.3	2.5	0.87	0.04		0.08				20		
Methyl-N-2,4, 6-tetranitroaniline, N-	C ₇ H ₅ N ₅ O ₈	479-45-8	9.00	3.0	-	1.57									
Methylpent-3-en-2-one, 4-	C ₆ H ₁₀ O	141-79-7	9.00	0.7	1.3	0.86									

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Detectable Gases/Vapors Continued

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg.m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Methylpentan-2-ol, 4-	C ₆ H ₁₄ O	108-11-2	9.80	2.8	1.0	0.80	40	25	165	100			400	25	100
Methylpentane-2,4-diol, 2-	C ₆ H ₁₄ O ₂	107-41-5	9.00	4.0	1.3	0.92					25	125	ND		
Methylpropan-2-ol, 2-	C ₄ H ₁₀ O	75-65-0	9.7	3.5	2.4	0.86	150	100	450	300			1600	100	300
Methylstyrene	C ₉ H ₁₀	25013-15-4	8.20	0.5	0.8	0.89		100		480			400	100	480
Mineral oil		8042-47-5	9.00	0.8	-	0.84									
Mineral spirits		64475-85-0	9.00	0.8	-	0.75				350		1800			500
Naphthalene	C ₁₀ H ₈	91-20-3	8.14	0.4	0.9	1.03	15	10	75	50			250	10	50
Neon	Ne	01/09/40	21.56	ZR	-	0.00									
Nitric oxide	NO	10102-43-9	9.27	8.0	-	1.32		25		30			100	25	30
Nitroaniline 4-	C ₆ H ₆ N ₂ O ₂	100-01-6	8.85	0.8	1.5	1.42		0.5		3				1	6
Nitrobenzene	C ₆ H ₅ NO ₂	98-95-3	9.92	1.7	1.8	1.20		1		5			200	1	5
Nitroethane	C ₂ H ₅ NO ₂	79-24-3	10.88	ZR	3.4	1.05		100		310			1000	100	310
Nitrogen dioxide	NO ₂	10102-44-0	9.58	10.0	-	2.62		1		1.8			20		
Nitrogen trichloride	NCl ₃	10025-85-1	10.22	1.0	-	1.65									
Nitrogen trifluoride	NF ₃	7783-54-2	12.97	ZR	-	3.12		10		29			1000	10	29
Nitromethane	CH ₃ NO ₂	75-52-5	11.08	ZR	7.3	1.14							750	100	250
Nitropropane, 1-	C ₃ H ₇ NO ₂	108-03-2	10.81	ZR	2.2	1.00		25		90			1000	25	90
Nitropropane, 2-	C ₃ H ₇ NO ₂	79-46-9	10.71	ZR	2.6	0.99								25	90
Nitrous oxide	N ₂ O	10024-97-2	12.886	ZR	-	1.93		25		46			ND		
Nonane, n-	C ₉ H ₂₀	111-84-2	9.72	1.3	~0.87	0.72		200		1050			ND		
Norbornadiene, 2,5-	C ₇ H ₈	121-46-0	8	0.6	1.1	0.85									
Octachloronaphthalene	C ₁₀ Cl ₈	2234-13-1	9	1.0	-	2.00			0.3	0.1					0.1
Octane, n-	C ₈ H ₁₈	111-65-9	9.8	1.6	1.0	0.70		75		350	385	1800	1000	500	2350
Octene, 1-	C ₈ H ₁₆	111-66-0	9.43	0.7	0.7	0.71									
Oxalic acid	C ₂ H ₂ O ₄	144-62-7	11	ZR	8.5	1.90				2	1				1
Oxalonnitrile	C ₂ N ₂	460-19-5	13.57	ZR	6.6	2.28		10		20			ND		
Oxydiethanol 2,2-	C ₄ H ₁₀ O ₃	111-46-6		4.0	2.0	1.12									
Oxygen	O ₂	7782-44-7	12.0697	ZR	-										
Ozone	O ₃	10028-15-6	12.52	ZR	-						0.1	0.2	5	0.1	0.2
Paraffin wax, fume		8002-74-2		1.0	-	0.90				2			ND		
Paraffins, normal		64771-72-8	10	1.0											

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Detectable Gases/Vapors Continued

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg.m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Pentacarbonyl iron	FeC ₅ O ₅	13463-40-6	9	1.0	3.7	1.49	0.2	0.1	0.45	0.23			ND		
Pentachloroethane	C ₂ HCl ₅	76-01-7	11.28	ZR	-	1.68									
Pentachlorofluoroethane	C ₂ Cl ₅ F	354-56-3	11.8	ZR											
Pentafluoroethane	C ₂ HF ₅	354-33-6	12	ZR	-	1.53									
Pentan-2-one	C ₅ H ₁₀ O	107-87-9	9.38	0.8	1.5	0.80		150		530			1500	200	700
Pentan-3-one	C ₅ H ₁₀ O	96-22-0	9.31	0.8	1.6	0.81		200		705			ND		
Pentandione, 2,4-	C ₅ H ₈ O ₂	123-54-6	8.85	0.8	1.7	0.98									
Pentane, n-	C ₅ H ₁₂	109-66-0	10.35	7.9	1.4	0.63		120		350	610	1800	1500	1000	2950
Peracetic acid	C ₂ H ₄ O ₃	79-21-0		2.0	-										
Perchloryl fluoride	ClO ₃ F	7616-94-6	13.60	ZR	-	4.50	6	3	28	14			100	3	13.5
Perfluorocyclobutane	C ₄ F ₈	115-25-3	13.5	ZR	-	0.01									
Perfluoropropane	C ₃ F ₈	76-19-7	13.38	ZR	-										
Petroleum ether			10	0.9	-	0.81									
Phenol	C ₆ H ₆ O	108-95-2	8.51	1.2	1.7	1.07		5		19	15.6	60	250	5	19
Phenyl propene, 2-	C ₉ H ₁₀	98-83-9	8.35	0.4	1.9	0.91	100	50	485	240			700		
Phenyl-2,3-epoxypropyl ether	C ₉ H ₁₀ O ₂	122-60-1	8.6	0.8	1.1	1.11	10		60		1	6	100		
Phenylenediamine, p-	C ₆ H ₈ N ₂	106-50-3	6.89	0.6	1.3					0.1					0.1
Phosgene	COCl ₂	75-44-5	11.55	ZR	-	4.34		0.1		0.4	0.2	0.8	2	0.1	0.4
Phosphine	PH ₃	7803-51-2	9.96	2.0	1.8	1.49	1	0.3	1	0.4			50	0.3	0.4
Picoline, 3-	C ₆ H ₇ N	108-99-6	9.04	0.9	1.3	0.96									
Pinene, alpha	C ₁₀ H ₁₆	80-56-8	8.07	0.3	0.8	0.91									
Pinene, beta	C ₁₀ H ₁₆	127-91-3	8.1	0.3	0.8	0.87									
Piperidine	C ₅ H ₁₁ N	110-89-4	8.03	0.9	1.4	0.86									
Piperylene	C ₅ H ₈	504-60-9	8.6	0.7	1.0	0.68									
Prop-2-yn-1-ol	C ₃ H ₄ O	107-19-7	9	1.3	2.4	0.96		1		2			ND		
Propan-1-ol	C ₃ H ₈ O	71-23-8	10.2	4.8	2.1	0.80	250	200	625	500			800	200	500
Propane	C ₃ H ₈	74-98-6	11.07	ZR	2.1	0.49		1000		1800			2100	1000	1800
Propane-1,2-diol, total	C ₃ H ₈ O ₂	57-55-6		10.0	2.6	1.04									
Propene	C ₃ H ₆	115-07-1	9.73	1.4	2.0	0.51									
Propionaldehyde	C ₃ H ₆ O	123-38-6	9.95	1.7	3.0	0.81									
Propionic acid	C ₃ H ₆ O ₂	79-09-4	10.24	8.0	2.9	0.99	15	10	45	30			ND		

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Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg.m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Propyl acetate, n-	C ₅ H ₁₀ O ₂	109-60-4	10.04	2.5	1.7	0.84	250	200	1050	840			1700	200	840
Propylene dinitrate	C ₃ H ₆ N ₂ O ₆	6423-43-4	11	ZR		1.35									
Propylene oxide	C ₃ H ₆ O	75-56-9	10.22	7.0	2.1	0.83							400	100	240
Propyleneimine	C ₃ H ₇ N	75-55-8	9	1.3	2.3	0.80		2		5			100	2	5
Pyridine	C ₅ H ₅ N	110-86-1	9.25	0.8	1.8	0.98		5		15			1000	5	15
Pyridylamine 2-	C ₅ H ₆ N ₂	504-29-0	9	0.8	-	1.07		0.5		2			5	0.5	2
Silane	SiH ₄	7803-62-5	11	ZR	1.4	1.11		5		7			ND		
Sodium fluoroacetate	C ₂ H ₂ O ₂ FNa	62-74-8	11	ZR	-										
Styrene	C ₈ H ₈	100-42-5	8.4	0.4	0.9	0.91	100	50	425	215			700	100	
Sulfur dioxide	SO ₂	7446-09-5	12.3	ZR	-	1.25	3	2	13	5			100	5	13
Sulfur hexafluoride	SF ₆	2551-62-4	19.3	ZR	-	6.41		1000		6000			ND	1000	6000
Sulfur tetrafluoride	SF ₄	7783-60-0	12.63	ZR	-	4.74	0.1		0.4				ND		
Sulfuric acid	H ₂ SO ₄	7664-93-9	12	ZR	-	1.80				1					1
Sulfuryl fluoride	SO ₂ F ₂	2699-79-8	13.04	ZR	-	4.48	10	5	40	20			200	5	20
Terphenyls	C ₁₈ H ₁₄			0.6											
Terpinolene	C ₁₀ H ₁₆	586-62-9	8.1	0.5	0.8	0.86									
Tert-butanol	C ₄ H ₁₀ O	75-65-0	9.8	2.6	2.4	0.78	150	100	450	300			1600	100	300
Tetrabromoethane, 1,1,2,2-	C ₂ H ₂ Br ₄	79-27-6	10	2.0	-	2.97									
Tetracarbonylnickel	NiC ₄ O ₄	13463-39-3	8.28	1.0	2.0	1.31		0.001		0.007			2	0.001	0.007
Tetrachloro-1,2-difluoroethane, 1,1,2,2-	C ₂ Cl ₄ F ₂	76-12-0	11.3	ZR	-	1.65		500		4170			2000	500	4170
Tetrachloro-1-fluoroethane, 1,1,2,2-	C ₂ HCl ₄ F	354-14-3	11	ZR											
Tetrachloro-2,2-difluoroethane, 1,1,1,2-	C ₂ Cl ₄ F ₂	76-11-9	11	ZR	-	1.65		500		4170			2000	500	4170
Tetrachloro-2-fluoroethane, 1,1,1,2-	C ₂ HCl ₄ F	354-11-0	11	ZR											
Tetrachloroethane, 1,1,1,2-	C ₂ H ₂ Cl ₄	630-20-6	11.1	ZR	4.9	1.54							ND		
Tetrachloroethane, 1,1,2,2-	C ₂ H ₂ Cl ₄	79-34-5	11.1	ZR	-	1.59		1		7			100	5	35
Tetrachloroethylene	C ₂ Cl ₄	127-18-4	9.326	0.7	-	1.62							150	100	
Tetrachloronaphthalenes, all isomers	C ₁₀ H ₄ Cl ₄	20020-02-4	8.5	1.0	-	1.62				2					2
Tetraethyl orthosilicate	C ₈ H ₂₀ O ₄ Si	78-10-4	9.8	2.0	1.3	0.93		10		85			700	100	850
Tetraethyllead	C ₈ H ₂₀ Pb	78-00-2	11.1	ZR	1.8	1.65				0.075					0.075

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Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg. m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Tetrafluoroethane, 1,1,1,2-	C ₂ H ₂ F ₄	811-97-2	11	ZR	-	1.21									
Tetrafluoroethane, 1,1,2,2-	C ₂ H ₂ F ₄	359-35-3	11	ZR											
Tetrafluoroethylene	C ₂ F ₄	116-14-3	10.12	1.0	11.0										
Tetrafluoromethane	CF ₄	75-73-0	15.3	ZR	-										
Tetrahydrofuran	C ₄ H ₈ O	109-99-9	9.41	1.6	1.8	0.89	250	200	735	590			2000	200	590
Tetramethyl orthosilicate	C ₄ H ₁₂ O ₄ Si	681-84-5	11	ZR	-	1.02		1		6			ND		
Tetramethyl succinonitrile	C ₈ H ₁₂ N ₂	3333-52-6		1.0	-	1.07		0.5		3			5	0.5	3
Therminol			9	1.0		1.06									
Thionyl chloride	SOCl ₂	7719-09-7	10.96	ZR		1.64					1	5	ND		
Toluene	C ₇ H ₈	108-88-3	8.82	0.5	1.0	0.87	150	100	560	375			500	200	
Toluene-2,4-diisocyanate	C ₉ H ₆ N ₂ O ₂	584-84-9	8.82	1.6	0.9	1.22							2.5		
Toluenesulfonyl chloride, p-	C ₇ H ₇ SO ₂ Cl	98-59-9		3.0	-	1.32									
Toluidine, o-	C ₇ H ₉ N	95-53-4	7.4	0.5		1.00									
Tributyl phosphate	C ₁₂ H ₂₇ O ₄ P	126-73-8		5.0	-	0.98		0.2		2.5			30		5
Tributylamine	C ₁₂ H ₂₇ N	102-82-9	7.4	1.0	1.4	0.78									
Trichloro-1,1-difluoroethane, 1,2,2-	C ₂ HCl ₃ F ₂	354-21-2	11	ZR											
Trichloro-1,2-difluoroethane, 1,1,2-	C ₂ HCl ₃ F ₂	354-15-4	11	ZR											
Trichloro-2,2-difluoroethane, 1,1,1-	C ₂ HCl ₃ F ₂	354-12-1	11	ZR											
Trichloro-2-fluoroethane, 1,1,2-	C ₂ H ₂ Cl ₃ F	359-28-4	11	ZR											
Trichlorobenzene 1,2,4-	C ₆ H ₃ Cl ₃	120-82-1	9.04	0.6	2.5	1.45					5		ND		
Trichloroethane, 1,1,1-	C ₂ H ₃ Cl ₃	71-55-6	11	ZR	7.5	1.34					350	1900	700	350	1900
Trichloroethane, 1,1,2-	C ₂ H ₃ Cl ₃	79-00-5	11	ZR	8.6	1.44		10		45			100	10	45
Trichloroethylene	C ₂ HCl ₃	79-01-6	9.45	0.7	8.0	1.46							1000	100	
Trichlorofluoromethane	CCl ₃ F	75-69-4	11.77	ZR	-	1.47					1000	5600		1000	5600
Trichloronitromethane	CCl ₃ NO ₂	76-06-2	13	ZR	-	1.66									
Trichlorophenoxyacetic acid, 2,4,5-	C ₈ H ₅ O ₃ Cl ₃	93-76-5		1.0	-	1.80			10						10
Trichloropropane 1,2,3-	C ₃ H ₅ Cl ₃	96-18-4	11	ZR	3.2	1.39		10		60			100	50	300
Trichlorotrifluoroethane, 1,1,1-	C ₂ Cl ₃ F ₃	354-58-5	11.5	ZR	-										
Trichlorotrifluoroethane, 1,1,2-	C ₂ Cl ₃ F ₃	76-13-1	11.99	ZR	-	1.56									
Triethylamine	C ₆ H ₁₅ N	121-44-8	7.5	0.9	1.2	0.73							200	25	100
Trifluoroethane, 1,1,1-	C ₂ H ₃ F ₃	420-46-2	12.9	ZR	-										

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Density > 1, gas sinks;
< 1 gas rises

STEL = Short Term Exposure Limit | TWA = Time Weighted Average
IDLH = Immediately Dangerous to Life or Health

PEL = Permissible Exposure Limit (8hr)

Detectable Gases/Vapors Continued

Gas/Vapor			PID Sensor		Characteristics		NIOSH						OSHA		
Common Name	Formula	CAS	Ionization Potential	10.6eV	LEL (%)	Density	STEL (ppm)	TWA (ppm)	STEL (mg.m3)	TWA (mg.m3)	Ceiling (ppm)	Ceiling (mg.m3)	IDLH (ppm)	TWA PEL (ppm)	TWA PEL (mg.m3)
Trifluoroethane, 1,1,2-	C ₂ H ₃ F ₃	430-66-0	12.9	ZR											
Trifluoroethanol, 2,2,2-	C ₂ H ₃ F ₃ O	75-89-8	13.00	ZR	5.5	1.39									
Trifluoromethane	CHF ₃	75-46-7	13.86	ZR	-	1.52									
Trimethylamine	C ₃ H ₉ N	53-50-3	7.82	0.5		0.64	15	10	36	24			ND		
Trimethylbenzene mixtures	C ₉ H ₁₂		8.41	0.3		0.89									
Trimethylbenzene, 1,3,5-	C ₉ H ₁₂	108-67-8	8.39	0.3	0.9	0.86		25		125			ND		
Trinitrotoluene 2,4,6-	C ₇ H ₅ N ₃ O ₆	118-96-7	10.59	ZR		1.65									
Turpentine	C ₁₀ H ₁₆	8006-64-2	8	0.6	0.8	0.86		100		560			800	100	560
TVOC			10	1.0											
Undecane, n-	C ₁₁ H ₂₄	1120-21-4	9.56	0.9	0.7	0.74									
Vinyl acetate	C ₄ H ₆ O ₂	108-05-2	9.19	1.1	2.6	0.93					4	15	ND		
Vinyl bromide	C ₂ H ₃ Br	593-60-2	9.8	1.0	9.0	1.49							ND		
Vinyl chloride	C ₂ H ₃ Cl	75-01-4	9.99	2.1	3.6	1.08	1						ND		
Vinyl-2-pyrrolidinone, 1-	C ₆ H ₉ NO	88-12-0	9	0.9	1.4	1.04									
Water	H ₂ O	7732-18-5	12.61	ZR		1.00									
Xenon	Xe	7440-63-3	12.1299	ZR		0.01									
Xylene mixed isomers	C ₈ H ₁₀	1330-20-7	8.56	0.4		0.86									
Xylene, m-	C ₈ H ₁₀	108-38-3	8.56	0.4	1.1	0.86	150	100	655	435			900	100	435
Xylene, o-	C ₈ H ₁₀	95-47-6	8.56	0.6	0.9	0.88	150	100	655	435			900	100	435
Xylene, p-	C ₈ H ₁₀	106-42-3	8.44	0.6	1.1	0.86	150	100	655	435			900	100	435
Xylidine, all	C ₈ H ₁₁ N	1300-73-8	7.5	0.7	1.0	0.98		2		10			50	5	25

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Gas/Vapor Synonyms

If you find the target gas/vapor in the synonym column, reference the Common Name in the table beginning on page 1.

Common Name	Synonym
Acetaldehyde	acetic aldehyde, aldehyde, ethanal, ethyl aldehyde, ethylaldehyde, NCIC56326, acetylaldehyde
Acetic Acid	ethanoic acid, ethylic acid, methanecarboxylic acid, vinegar acid
Acetic Anhydride	Acetic oxide, Ethanoic Anhydride
Acetone	dimethylformadehyde, dimethyl ketone, ketone propane, propanone, methyl ketone, pyroacetic acid, pyroacetic ether
Acetonitrile	Cyanomethane, Ethyl nitrile, Methyl cyanide,
Acetylene	Ethine, Ethyne
Acrolein	2-propenal, acraldehyde, acrylaldehyde, acrylic aldehyde, allylaldehyde, prop-2-en-1-al, 2-propen-1-one, Aqualin, NSC 8819, propenal, crolean, ethylene aldehyde
Acrylic Acid	Acroleic acid, Ethylene carboxylic acid, Propene acid, Propenoic acid, Vinyl formic acid
Acrylonitrile	Acrylonitrile monomer, AN, Cyanoethylene, Propenenitrile, 2-Propenenitrile, VCN, Vinyl cyanide,
Allyl alcohol	2-propen-1-ol, AA, Allylic alcohol, Propenol, 1-Propen-3-ol, 2-Propenol, Vinyl carbinol , 3 - hydroxypropene, propenyl alcohol
Allyl chloride	3-Chloropropene, 1-Chloro-2-propene, 3-Chloropropylene,
Ammonia	Anhydrous ammonia, Aqua ammonia, Aqueous ammonia,
Amyl acetate, n-	Amyl acetic ester, Amyl acetic ether, 1-Pentanol acetate, Pentyl ester of acetic acid, Primary amyl acetate, amyl acetate
Amyl alcohol	1-Pentanol, Alcohol C-5, Pentyl alcohol
Aniline	Aminobenzene, Aniline oil, Benzenamine, Phenylamine , aminophen, anyvim, blue oil, cyanol, krystallin
Anisole	methoxy benzene, methyl phenyl ether
Argon	

Common Name	Synonym
Arsine	Arsenic hydride, Arsenic trihydride, Arseniuretted hydrogen, Arsenous hydride, Hydrogen arsenide ,
Asphalt, petroleum fumes	
Benzaldehyde	artificial almond oil, benzene carbaldehyde, benzenecarbonal, benzoic aldehyde, phenylmethanal
Benzene	benzolene, carbon oil, coal naptha, cyclohexatriene, phenyl hydride, pyrobenzol
Benzenethiol	phenyl mercaptan, thiophenol, mercaptobenzene
Benzonitrile	cyanobenzene, phenyl cyanide
Benzyl alcohol	Benzenemethanol, Benzene carbinol, (Hyroxymethyl)Benzene, Alpha-Hydroxytoluene, Phenylmethanol
Benzyl chloride	Chloromethylbenzene, alpha-Chlorotoluene , chlorophenylmethane
Benzyl formate	
Biphenyl	diphenyl, xenene, bibenzene, lemonene, phenyl benzene, Therminol = 73.5% diphenyl oxide (DPO) and 26.5% biphenyl
Bis(2,3-epoxypropyl) ether	diglycidyl ether
Boron trifluoride	
Bromine	
Bromine pentafluoride	bromine fluoride
Bromobenzene	monobromobenzene, phenyl bromide
Bromochloromethane	chlorobromomethane, CB, CBM, Fluorocarbon 1011, Halon® 1011, Methyl chlorobromide
Bromoethane	Monobromoethane, ethyl bromide
Bromoethyl methyl ether, 2-	1-bromo-2-methoxyethane
Bromoform	Methyl tribromide, Tribromomethane
Bromopropane, 1-	
Bromotrifluoromethane	R 13B1, trifluorobromomethane, Fluorocarbon 1301, Freon® 13B1, Halocarbon 13B1, Halon® 1301, Monobromotrifluoromethane, Refrigerant 13B1, Trifluoromonobromomethane ,

Synonyms for Common Compounds Continued

Common Name	Synonym
Butadiene	Biethylene, Bivinyll, Butadiene, Divinyll, Erythrene, Vinyllethylene
Butadiene diepoxide, 1,3-	2,2'-Bioxirane
Butane, n-	normal-Butane, Butyl hydride, Diethyl, Methyl ethylmethane
Butanol, 1-	n-butyl alcohol, n-Butanol, Butyl alcohol, 1-Hydroxybutane, n-Propyl carbinol, butyl hydroxide, methylolpropane, propylcarbinol, propyl methanol
Buten-3-ol, 1-	3-buten-2-ol, Methyl vinyl carbinol
Butene, 1-	
Butoxyethanol, 2-	ethylene glycol monobutyl ether, ethylene glycol n-butyl ether, Butyl Cellosolve®, Butyl oxitol, Dowanol® EB, EGBE, Ektasolve EB®, Jeffersol EB
Butyl acetate, n-	Butyl acetate, n-Butyl ester of acetic acid, Butyl ethanoate,
Butyl acrylate, n-	n-Butyl acrylate, Butyl ester of acrylic acid, Butyl 2-propenoate,
Butyl lactate	Butyl ester of 2-hydroxypropanoic acid, Butyl ester of lactic acid, Butyl lactate,
Butyl mercaptan	Butanethiol, 1-Butanethiol, n-Butanethiol, 1-Mercaptobutane
Butylamine, 2-	sec-butylamine, 2-aminobutane, deccotane, frucote, 1-methyl propylamine
Butylamine, n-	1-Aminobutane, l-Butanamine, Monobutylamine
Camphene	
Carbon dioxide	carbonic acid gas, dry ice
Carbon disulfide	carbon bisulfide
Carbon monoxide	carbon oxide, flue gas, monoxide
Carbon tetrabromide	Carbon bromide, Methane tetrabromide, Tetrabromomethane,
Carbon tetrachloride	R10, Carbon chloride, Carbon tet, Freon® 10, Halon® 104, Tetrachloromethane
Carbonyl sulfide	
Carvone, R-	R-2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-one, (R)-(-)-p-Mentha-6,8-dien-2-one, (-)-Carvone, l-Carvone, L(-)-Carvone
Chlorine	molecular chlorine
Chlorine dioxide	chlorine oxide, chlorine peroxide
Chlorine trifluoride	chlorine fluoride, chlorinetrifluoride

Common Name	Synonym
Chloro-1,1,1,2-tetrafluoroethane, 2-	R124
Chloro-1,1,1-trifluoroethane, 2-	R133a
Chloro-1,1,2,2-tetrafluoroethane, 1-	R124a
Chloro-1,1,2-trifluoroethane, 1-	R133b
Chloro-1,1-difluoroethane, 1-	R 142B
Chloro-1,1-difluoroethane, 1-	R142b
Chloro-1,1-difluoroethane, 2-	R142
Chloro-1,2,2-trifluoroethane, 1-	R133
Chloro-1,3-butadiene, 2-	
Chloro-1-fluoroethane, 1-	R151a
Chloro-2-fluoroethane, 1-	R151
Chloroacetaldehyde	Chloroacetaldehyde (40% aqueous solution), 2-Chloroacetaldehyde, 2-Chloroethanal,
Chlorobenzene	Benzene chloride, Chlorobenzol, MCB, Monochlorobenzene, Phenyl chloride ,
Chlorodifluoromethane	a, Difluorochloromethane, Fluorocarbon-22, Freon® 22, Genetron® 22, Monochlorodifluoromethane, Refrigerant 22,
Chloroethane	R160, Hydrochloric ether, Monochloroethane, Muriatic ether , ethyl chloride
Chloroethanol 2-	2-Chloroethyl alcohol, Ethylene chlorhydrin, ethylene chlorohydrin .
Chloroethyl methyl ether, 2-	1-chloro-2-methoxyethane
Chlorofluoromethane	R31
Chloroform	R20, trichloromethane, trichloroform, methenyl trichloride, formyl trichloride, methyl trichloride
Chloromethane	R40, methyl chloride
Chloropentafluoroethane	R115, Fluorocarbon-115, Freon® 115, Genetron® 115, Halocarbon 115, Monochloropentafluoroethane
Chlorotoluene, o-	1-Chloro-2-methylbenzene, 2-Chloro-1-methylbenzene, 2-Chlorotoluene, o-Tolyl chloride , alpha-chlorotoluene
Chlorotoluene, p-	1-chloro-3-methylbenzene
Chlorotrifluoroethylene	R1113
Chlorotrifluoromethane	R13
Citral	3,7-dimethyl-2,6-octadienal, lemsyn
Citronellol	cephrol, 2,6-dimethyl-2-octen-8-ol, rhodinol

Synonyms for Common Compounds Continued

Common Name	Synonym
Cresol, m-	meta-Cresol, 3-Cresol, m-Cresylic acid, 1-Hydroxy-3-methylbenzene, 3-Hydroxytoluene, 3-Methyl phenol
Cresol, o-	ortho-Cresol, 2-Cresol, o-Cresylic acid, 1-Hydroxy-2-methylbenzene, 2-Hydroxytoluene, 2-Methyl phenol
Cresol, p-	para-Cresol, 4-Cresol, p-Cresylic acid, 1-Hydroxy-4-methylbenzene, 4-Hydroxytoluene, 4-Methyl phenol
Crotonaldehyde	b-methylacrolein, propylene aldehyde, crotonic aldehyde, 2-butenal, 2-butanaldehyde, 1-formalpropene
Cumene	Cumol, Isopropyl benzene, 2-Phenyl propane,
Cyanamide	Amidocyanogen, Carbimide, Carbodiimide, Cyanogen nitride, Hydrogen cyanamide [Note: Cyanamide is also a synonym for Calcium cyanamide.] ,
Cyanogen bromide	
Cyanogen chloride	Chlorcyan, Chlorine cyanide, Chlorocyanide, Chlorocyanogen
Cyclohexane	Benzene hexahydride, Hexahydrobenzene, Hexamethylene, Hexanaphthene
Cyclohexanol	Anol, Cyclohexyl alcohol, Hexahydrophenol, Hexalin, Hydralin, Hydroxycyclohexane , adronal, hydrophenol, naxol
Cyclohexanone	pimelic ketone, cyclohexyl ketone, ketohexamethylene, Anone, Hytrol O, Nadone, Sextone
Cyclohexene	Benzene tetrahydride, Tetrahydrobenzene
Cyclohexylamine	Aminocyclohexane, Aminohexahydrobenzene, Cyclohexanamine, Hexahydroaniline, hexahydrobenzenamine
Cyclopentane	pentamethylene
Decane, n-	
Deuterium oxide	heavy water
Diacetone alcohol	Diacetone, 4-Hydroxy-4-methyl-2-pentanone, 2-Methyl-2-pentanol-4-one , pyranton, tyranton
Dibenzoyl peroxide	Benzoyl superoxide
Diborane	Boroethane, Boron hydride, Diboron hexahydride,
Dibromochloromethane	

Common Name	Synonym
Dibromodifluoromethane	Difluorodibromomethane, Freon® 12B2, Halon® 1202,
Dibromoethane 1,2-	Ethylene bromide, Glycol dibromide, ethylene dibromide
Dibromotetrafluoroethane, 1,2-	R114B
Dibutyl hydrogen phosphate	Dibutyl acid o-phosphate, Di-n-butyl hydrogen phosphate, Dibutyl phosphoric acid,
Dichloro-1,1,1-trifluoroethane, 2,2-	R123
Dichloro-1,1-difluoroethane, 1,2-	R132a
Dichloro-1,2,2-trifluoroethane, 1,2-	R123a
Dichloro-1,2-difluoroethane, 1,2-	R132
Dichloro-1-fluoroethane, 1,1-	R141b
Dichloro-1-fluoroethane, 1,1-	R141a
Dichloro-1-fluoroethane, 1,2-	R141
Dichloro-1-propene, 2,3-	
Dichloro-2,2,-difluoroethane, 1,1-	R1112a
Dichloroacetylene	
Dichlorobenzene o-	o-DCB 1,2-Dichlorobenzene, ortho-Dichlorobenzene, o-Dichlorobenzol ,
Dichlorodifluoromethane	R12, Difluorodichloromethane, Fluorocarbon 12, Freon® 12, Genetron® 12 Halon® 122, Propellant 12, Refrigerant 12 ,
Dichloroethane 1,2-	R150, Ethylene chloride, Ethylene dichloride, Glycol dichloride
Dichloroethane, 1,1-	R150a, Asymmetrical dichloroethane, Ethylidene chloride 1,1-Ethylidene dichloride ,
Dichloroethene, 1,1-	brocide, EDC, 1,2-bichloroethane, 1,2-dichloroethane, dutch liquid, s-dichloroethane, 1,1-dichloroethylene, Sconatex, Vinylidene chloride, 1,1-Dichloroethene, 1,1-Dichloroethylene, CH ₂ =CCl ₂ , Chlorure de vinylidene, 1,1-DCE, NCI-C54262, Rcra waste number U078, VDC, Vinylidene dichloride, Vinylidene chloride
Dichloroethene, cis-1,2-	R1130[cis]
Dichloroethene, trans-1,2-	R1130[trans], trans-acetylene dichloride
Dichloroethylene 1,2-	R1132a, Acetylene dichloride, cis-Acetylene dichloride, trans-Acetylene dichloride, sym-Dichloroethylene , dioform

Synonyms for Common Compounds Continued

Common Name	Synonym
Dichlorofluoromethane	R21, Dichlorofluoromethane Fluorodichloromethane, Freon® 21, Genetron® 21, Halon® 112, Refrigerant 21
Dichloromethane	R30, methylene chloride, Aerothene MM, methylene dichloride, Narkotil, R30, Solaesthin, Solmethine, DCM, methane dichloride, methylene bichloride, NCI-C50102, UN 1593, freon 30, hcc 30, khladon 30, solaesthin
Dichloropropane, 1,2-	Dichloro-1, 2-propane propylene dichloride
Dichlorotetrafluoroethane, 1,1-	R114a
Dichlorotetrafluoroethane, 1,2-	R114
Dicyclopentadiene	cyclopentadiene dimer, bicyclopentadiene, 3A,4,7,7A-tetrahydro-4,7-methanoindene, 1,3-cyclopentadiene dimer
Diesel Fuel	
Diethyl ether	ethyl ether, Diethyl oxide, Ethyl oxide, Ether, Solvent ether, aether, anaesthetic ether, ethoxy ethane
Diethyl maleate	ethyl maleate, maleic acid diethyl ester, (Z)-2-butenedioic acid diethyl ester,
Diethyl phthalate	, diethyl 1,2-benzenedicarboxylate, ethyl phthalate, Neantine, Palatinol A, o-benzenedicarboxylic acid diethyl ester, Placidol E 1,2-benzenedicarboxylic acid, diethyl ester phthalic acid, diethyl ester phthalol, DEP, ""Kodaflex"" DEP Plasticizer, RCRA U088
Diethyl sulfate	
Diethyl sulfide	
Diethylamine	diethamine, N-ethyl-ethanamine, DEN, N,N-diethylamine
Diethylaminoethanol, 2-	Diethylaminoethanol, 2-Diethylaminoethyl alcohol N,N-Diethylethanolamine, Diethyl-(2-hydroxyethyl)amine, 2-Hydroxytriethylamine
Diethylaminopropylamine, 3-	N,N-diethyl-1,3-propanediamine, 3-(Diethylamino)propylamine, 3-Aminopropyl-diethylamine, 3-diethylaminopropylamine
Difluoroethane, 1,1-	R152a
Difluoroethane, 1,2-	R152
Difluoromethane	R32, R407c = 52% R134a (C2H2F4), 25% R125 (C2HF5) and 23% R32 (CH2F2), R410a = 50% R32 (CH2F2) and 50% R125 (C2HF5)

Common Name	Synonym
Dihydrogen selenide	Hydrogen selenide, Hydroselenic acid, Selenium hydride
Dihydroxybenzene, 1,2	Pyrocatechol, o-dihydroxybenzene, o-Benzenediol 1,2-Dihydroxybenzene, o-Dihydroxybenzene, 2-Hydroxyphenol, catechol
Dihydroxybenzene, 1,3	Resorcinol, m-dihydroxybenzene, Resorcin, 1,3 benzenediol, C.I. 76505, C.I. Developer 4, C.I. Oxidation base 31, Developer O, Developer R, Developer RS, Fouramine RS, Durafur developer G, Fourrine 79, Fourrine EW, m-Hydroquinone, 3-Hydroxycyclohexadiene-1-one, m-Hydroxyphenol
Diisobutylene	2,4,4-Trimethyl-1-pentene
Diisopropyl ether	isopropyl ether, Diisopropyl oxide, 2-Isopropoxy propane,
Diisopropylamine	DIPA, N-(1-Methylethyl)-2-propanamine
Diketene	Acetyl ketene, 4-Methylene-2-oxetanone, But-3-en-3-olide
Dimethoxymethane	Methylal, Formal, Formaldehyde dimethylacetal, Methoxymethyl methyl ether, Methylene dimethyl ether, anasthenyl, dimethyl formal, dioxapentane, formaldehyde methal ketal
Dimethyl cyclohexane, 1,2-	
Dimethyl disulfide	
Dimethyl ether	Oxybismethane
Dimethyl phthalate	, 1,2-benzenedicarboxylic acid, dimethyl ester, phthalic acid, dimethyl ester dimethyl 1,2-benzenedicarboxylate, dimethyl o-phthalate, Avolin, DMP, Fermine, Palitinol M, Unimoll DM, RCRA U102
Dimethyl sulfate	Dimethyl ester of sulfuric acid, Dimethylsulfate, Methyl sulfate,
Dimethylacetamide N,N-	
Dimethylamine	Dimethylamine (anhydrous), N-Methylmethanamine
Dimethylaminoethanol	N,N-dimethylethanolamine, amietol M 21, bimanol, deanol, liparon, kalpur B, norchlorine, propamine A, texacat DME
Dimethylaniline, NN-	(dimethylamino)benzene, N,N-dimethylbenzeneamine, dimethylphenylamine N,N-dimethylphenylamine,N,N-dimethyl, (dimethylamino)benzene, dimethylaniline

Synonyms for Common Compounds Continued

Common Name	Synonym
Dimethylbutyl acetate	Acetic acid, 1,3 - dimethylbutyl ester, 1,3 - Dimethylbutyl acetate, sec - Hexyl acetate, MAAC
Dimethylethylamine, NN-	
Dimethylformamide	DMF, DMFA, Dimethyl formamide N,N-Dimethylformamide, DMF, formamide
Dimethylheptan-4-one, 2,6-	isobutyl ketone, isovalerone, diisopropyl acetone, valerone
Dimethylhydrazine, 1,1-	Dimazine, DMH, UDMH, Unsymmetrical dimethylhydrazine
Dinitrobenzene, m-	meta-Dinitrobenzene 1,3-Dinitrobenzene,
Dinitrobenzene, o-	ortho-Dinitrobenzene 1,2-Dinitrobenzene,
Dinitrobenzene, p-	para-Dinitrobenzene 1,4-Dinitrobenzene,
Dinonyl phthalate	Bisoflex dnp, Dinonyl 1,2-benzenedicarboxylate, Ditrimethylhexyl phthalate, di-n-Nonyl phthalate
Dioxane 1,2-	
Dioxane 1,4-	Diethylene dioxide, Diethylene ether, Dioxan, p-Dioxane, Dioxane , 1,4-diethylene dioxide
Dipentene	1-Methyl-4-(1-methylethenyl)cyclohexene, Limonene, DL-p-Mentha-1,8-diene, (+/-)-Limonene, HISTOLEMON, DL-1,8-Menthadiene, DL-Limonene (mixture of D- and L-form ~1:1), 4-Isopropyl-1-methylcyclohexene, 4-isopropenyl-1-methyl-1-cyclohexene, menthadiene, cinene
Diphenyl ether	biphenyl oxide, phenyl ether, diphenyl oxide, henoxylbenzene, geranium crystals, Thermiol VP1 = 73.5% diphenyl oxide (DPO) and 26.5% biphenyl
Disulfur decafluoride	sulfur pentafluoride
Disulfur dichloride	Chlorine sulfide, Disulfur tetrachloride
Di-tert-butyl-p-cresol	BHT, Butylated hydroxytoluene, Dibutylated hydroxytoluene, 4-Methyl-2-tert-butylphenol
Divinylbenzene	Diethyl benzene, DVB, Vinylstyrene [Note: Commercial product contains all 3 isomers, but m-isomer predominates. Usually contains an inhibitor to prevent polymerization.]
Dodecanol	dodecyl alcohol, 1-dodecyl alcohol, dodecyl-1-ol
Enflurane	2-chloro-1,1,2-trifluoroethyl difluoro-methyl ether, ethrane, Efrane, Alyrane 2-Chloro-1-(difluoromethoxy)-1,1,2-trifluoroethane

Common Name	Synonym
Epichlorohydrin	1-Chloro-2,3-epoxypropane, (chloromethyl) ethylene oxide, 2-Chloropropylene oxide, gamma-Chloropropylene oxide , 1,2-epoxy-3-chloropropane, (chloromethyl)-oxyrane
Epoxypropyl isopropyl ether, 2,3-	1,2 - Epoxy - 3 - isopropoxypropane, 2,3 - Epoxypropyl isopropyl ether, Glycidyl isopropyl ether, (Isopropoxymethyl) oxirane, Isopropyl epoxypropyl ether, Isopropyl glycidyl ether , 3 - Isopropoxypropylene oxide, ((1 - Methylethoxy) methyl) oxirane
Ethane	
Ethanol	ethanol, ethyl alcohol alcohol, alcohol anhydrous, Algrain, Anhydrol, ethyl hydrate, ethyl hydroxide, Jaysol, Tecsol, PL-1075 Rinse, ethyl alcohol USP 200 proof (USI), methyl carbinol, grain alcohol, ethylic alcohol, STCC 4909159, UN 1170, OHS08700
Ethanolamine	2-Aminoethanol, beta-Aminoethyl alcohol, Ethylolamine, 2-Hydroxyethylamine, Monoethanolamine , colamine, glycinol, olamine
Ethoxy-2-propanol, 1-	Propylene glycol monoethyl ether, PGEE, Arcosolve® Peptosol® solvent E, peneteck
Ethoxyethanol, 2-	Cellosolve solvent, Ethylene glycol monoethyl ether, EGEE,
Ethoxyethyl acetate, 2-	Cellosolve® acetate, EGEEA, Ethylene glycol monoethyl ether acetate, Glycol monoethyl ether acetate
Ethyl (S)-(-)-lactate	Ethyl (S)-2-hydroxypropionate
Ethyl acetate	Acetic ester, Acetic ether, Ethyl ester of acetic acid, Ethyl ethanoate , acetidin, acetoxylethane
Ethyl acrylate	acrylic acid, ethyl ester ethyl 2-propenoate, ethoxy carbonyl ethylene, 2-propenoic acid, ethyl ester
Ethyl amine	Aminoethane, Ethylamine (anhydrous), Monoethylamine,
Ethyl benzene	Ethylbenzol, Phenylethane
Ethyl butyrate	butanoic acid ethyl ester, butyric ether, ethyl butanoate
Ethyl chloroformate	chloroformic acid ethyl ester, ECF, ethyl chlorocarbonate
Ethyl cyanoacrylate	ethyl alpha-cyanoacrylate, 2-propenoic acid, 2-cyano, ethyl ester 2-cyano-acrylic acid, ethyl ester N135, Permabond 101.

Synonyms for Common Compounds Continued

Common Name	Synonym
Ethyl decanoate	capric acid ethyl ester, ethyl caprate, ethyl caprylate, ethyl decylate
Ethyl formate	Ethyl ester of formic acid, Ethyl methanoate, ethyl formate, formic ether
Ethyl hexanoate	ethyl caproate, 2-Ethylbutyl acetate
Ethyl hexanol, 2-	2-ethyl 1-hexanol, ethyl hexanol
Ethyl hexyl acrylate, 2-	2-ethylhexyl-2-propeonate, octyl acrylate
Ethyl mercaptan	ethanethiol, Ethyl sulfhydrate, Mercaptoethane, ethyl hydrosulfide, ethyl thioalcohol, thioethanol
Ethyl octanoate	
Ethylene	Ethene, Olefiant gas, Etherin, Elayl
Ethylene dinitrate	1,2-Ethanediol, dinitrate, 1,2-Ethanediol dinitrate*, EGDN, Ethylene nitrate, Glycol dinitrate, Nitroglycol, ethylene glycol dinitrate.,
Ethylene glycol	, 1,2-Ethanediol, ethylene alcohol 1,2-dihydroxyethane, ethylene dihydrate, glycol, glycol alcohol, Dowtherm SR 1, Lutrol-9, Macrogol 400 BPC, Norkool, Tescol, and Ucar 17, 1,2-ethandiol
Ethylene oxide	oxirane, dimethylene oxide, oxane 1,2-epoxy ethane, C2H4O, ETO
Ferrocene	bis(Cyclopentadienyl) iron, Ferrocene, dicyclopentadienyl iron
Fluorine	fluorine-19
Fluoroethane	R161, ethyl fluoride
Fluoromethane	R41, methyl fluoride
Formaldehyde	Methanal, Methyl aldehyde, Methylene oxide,
Formamide	Carbamide, Methanamide
Formic acid	Formic acid (85-95% in aqueous solution), Hydrogen carboxylic acid, Methanoic acid,
Furfural	2-furaldehyde, furfuraldehyde, fural, 2-furancarboxaldehyde, artificial ant oil, 2-formylfuran, 2-furancarboxal, pyromucic aldehyde
Furfuryl alcohol	2-Furylmethanol, 2-Hydroxymethylfuran
Gasoline vapors	Motor fuel, Motor spirits, Natural gasoline, Petrol
Gasoline vapors 92 octane	
Germane	Germanium hydride, Germanomethane, Monogermane, germanium tetrahydride

Common Name	Synonym
Glutaraldehyde	1,3-Diformylpropane, 1,5-pentanedial, glutaric dialdehyde
Halothane	, 2-bromo-2-chloro-1,1,1-trifluoroethane, fluothane
Helium	Triatomic oxygen
Heptan-2-one	Amyl methyl ketone, n-Amyl methyl ketone, 2-Heptanone,
Heptan-3-one	ethyl butyl ketone, butyl ethyl ketone
Heptane n-	Heptane, normal-Heptane, dipropyl methane, gettysolve-c, heptyl hydride
Hexachloroethane	R110, Carbon hexachloride, Ethane hexachloride, Perchloroethane, trichloro bis ethane,
Hexafluoroethane	R116, Perfluoroethane
Hexamethyldisilazane, 1,1,1,3,3,3-	
Hexamethyldisiloxane.	HMDSO
Hexan-2-one	N-Butyl methyl ketone, Methyl butyl ketone, Propyl acetone
Hexane n-	Hexane, Hexyl hydride, normal-Hexane, gettysolve-b
Hexene, 1-	dialene 6
Hydrazine	Diamine, Hydrazine (anhydrous), Hydrazine base,
Hydrazoic acid	Hydrogen azide
Hydrogen	
Hydrogen bromide	Anhydrous hydrogen bromide, Aqueous hydrogen bromide (i.e., Hydrobromic acid)
Hydrogen chloride	Anhydrous hydrogen chloride, Aqueous hydrogen chloride (i.e., Hydrochloric acid, Muriatic acid) [Note: Often used in an aqueous solution.]
Hydrogen cyanide	Formonitrile, Hydrocyanic acid, Prussic acid,
Hydrogen fluoride	Anhydrous hydrogen fluoride, Aqueous hydrogen fluoride (i.e., Hydrofluoric acid), HF-A, rubigine
Hydrogen peroxide	High-strength hydrogen peroxide, Hydrogen dioxide, Hydrogen peroxide (aqueous), Hydroperoxide, Peroxide,
Hydrogen sulfide	Hydrosulfuric acid, Sewer gas, Sulfuretted hydrogen,
Hydroquinone	1, 4-Benzenediol, Quenelle, r-dihydroxybenzene, Hydroquinol, Aids, Black and White Bleaching cream, Eldoquin, Eldopaque, Quinine, Tecquinol

Synonyms for Common Compounds Continued

Common Name	Synonym
Hydroxypropyl acrylate 2-	HPA, beta-Hydroxypropyl acrylate, Propylene glycol monoacrylate , Acrylic acid, 2-hydroxypropyl ester
Iminodi(ethylamine) 2,2-	Diethylenetriamine, 3-Azapentane-1,5-diamine, bis(2-Aminoethyl)amine
Iminodiethanol 2,2'-	bis(2-hydroxyethyl)amine, diolamine 2,2'-iminodiethanol 2,2'-dihydroxydiethylamine, diethanolamine
Indene	Indonaphthene ,
Iodine	
Iodoform	triiodomethane
Iodomethane	methyl iodide, halon 1001
Isoamyl acetate	Banana oil, Isopentyl acetate, 3-Methyl-1-butanol acetate, 3-Methylbutyl ester of acetic acid, 3-Methylbutyl ethanoate , isoamyl ethanoate, pear oil
Isobutane	2-methylpropane, R600a, trimethylmethane, 1,1-dimethylethane
Isobutanol	Isobutyl alcohol, Isopropylcarbinol, 2-Methyl-1-propanol,
Isobutyl acetate	Isobutyl ester of acetic acid, 2-Methylpropyl acetate, 2-Methylpropyl ester of acetic acid, beta-Methylpropyl ethanoate
Isobutyl acrylate	Acrylic acid, isobutyl ester, Isobutyl propenoate
Isobutylene	Isobutene , 2-methyl propene, 1,1-dimethylethene, isopropylidenemethylene
Isobutyraldehyde	3-Methylpropanal, Isobutanal
Isocyanates, all	
Isodecanol	decyl alcohol
Isodurane	Forane 1-chloro,2,2,2-trifluoroethyl difluoromethyl ether, Aerrane, Forene
Isononanol	3,3,5-trimethylhexanol
Isooctane	2,3,4-trimethylpentane
Isooctanol	methyl heptyl alcohol (mixed isomers)
Isopentane	isoamylhydride, 2-methylbutane, 1,1,2-trimethylethane
Isophorone	Isoacetophorone, 1,1,3-trimethyl-3-cyclohexene-1-one 1,3,5-Trimethyl-2-cyclohexenone, 3,5,5-Trimethyl-2-cyclo-hexen-1-one,

Common Name	Synonym
Isoprene	isopentadiene, 2-methyl-1,3,-butadiene, beta-methylbivinyll
Isopropanol	dimethyl carbinol, isopropanol, Petrohol, 2-propanol, 2-hydroxypropane, 1-methylethanol, alcosolve, avantin, hartosol, imsol A, isohol, spectrar, takineocol, virahol
Isopropyl acetate	Isopropyl ester of acetic acid, 1-Methylethyl ester of acetic acid, 2-Propyl acetate,
Isopropyl chloroformate	Carbonochloridic acid, 1-methylethyl ester, Isopropyl chlorocarbonate
Jet Fuel JP-4	
Jet Fuel JP-5	
Jet Fuel JP-8	
Kerosene	A refined petroleum solvent (predominantly C9-C16), which typically is 25% normal paraffins, 11% branched paraffins, 30% monocycloparaffins, 12% dicycloparaffins, 1% tricycloparaffins, 16% mononuclear aromatics & 5% dinuclear aromatics.] , Jet fuel 5, Jet fuel 8, K-1 kerosene, hydrotreated distillate light, white kerosene, stove oil, light distillate, furnace oil, fuel oil light
Ketene	Ethenone, Carbomethene, Ketoethylene
Krypton	
Liquefied petroleum gas	Bottled gas, Compressed petroleum gas, Liquefied hydrocarbon gas, Liquefied petroleum gas, LPG ,
Maleic anhydride	, 2,5-furandione, toxilic anhydride, cis butenedioic anhydride, maleic acid anhydride
Mercaptoacetic acid	Thiovanic acid, 2-Thioglycolic acid
Mercury	Colloidal mercury, Metallic mercury, Quicksilver
Mercury alkyls	
Mesitylene	1,3,5-teimethylbenzene, 3,5-trimethyltoluene, fleet-x, trimethylbenzol
Methacrylic acid	alpha-Methacrylic acid, 2-Methylenepropionic acid, 2-Methylpropenoic acid, 2-Methyl-2-propenoic acid
Methacrylonitrile	2-Cyanopropene-1, 2-Cyano-1-propene, Isoprene cyanide, Isopropenylnitrile, Methacrylonitrile, alpha-Methylacrylonitrile, 2-Methylpropenenitrile,
Methane	Marsh gas, Methyl hydride, Liquefied natural gas

Synonyms for Common Compounds Continued

Common Name	Synonym
Methanol	Carbinol, Columbian spirits, Methanol, Pyroligneous spirit, Wood alcohol, Wood naphtha, Wood spirit, pyroxylic spirit
Methoxyethanol, 2-	2ME, Methyl Cellosolve, Glycol monomethyl ether, Ethylene glycol monomethyl ether, EMGE, Methyl oxitol, Ektasolve, Jeffersol EM
Methoxyethoxyethanol, 2-	Diethylene glycol monomethyl ether
Methoxymethylethoxy-2-propanol	Dowanol DPM, dipropylene glycol monomethyl ether, dowanol 50b, Oxybispropanol methyl Ether, 1(or 2)-(2-methoxymethylethoxy)- Propanol, Arcosolve DPM, dipropylene glycol methyl ether CH ₃ CN ₂ (OH)CH ₂ OCH(CH ₃)CH ₂ OCH ₃
Methoxypropan-2-ol	1-methoxy-2-propanol, methoxypropanol, alpha isomer, 1M2P, propylene glycol monomethyl ether, propylene glycol methyl ether, Dowanol® 33b, Dowtherm® 209, glycol ether pm, methyl Proxitol®, Poly-solve® MPM, Propasol® solvent M, Dowanol® PM glycol ether, Pmarcosolve® PM, PGME, PM, 1-methoxy-2-propanol, 1-methoxy-2-hydroxypropane, 1-methoxypropanol-2, 2-methoxy-1-methylethanol, 2-propanol-1-methoxy
Methoxypropyl acetate	1-methoxy-2-propyl acetate, 1M2PA, PGMEA, methoxypropyl acetate, alpha isomer, 1-methoxy-2-acetoxypropane, propylene glycol monomethyl ether acetate, propylene glycol methyl ether acetate, PM acetate, Arcosolve® PMA, Dowanol® PMA, Eastman PM acetate
Methyl acetate	Methyl ester of acetic acid, Methyl ethanoate, devoton, tereton
Methyl acrylate	acrylic acid, methyl ester methyl 2-propenoate, 2-propenoic acid, methyl ester
Methyl bromide	Bromomethane, Dowfume, Embafume, Halon 1001, Metafume, Monobromomethane, Pestmaster, Profume, Terr-o-gas 67
Methyl cyanoacrylate	2-cyanoacrylic acid, methyl ester methylcyanoacrylate, methyl alphacyanoacrylate, mecrylate, 2-propenoic acid, 2-cyano, methyl ester, Permabond 910FS, Permabond 910
Methyl ethyl ketone	MEK, 2-butanone, ethyl methyl ketone, methyl acetone, meetco
Methyl ethyl ketone peroxides	2-Butanone peroxide, Ethyl methyl ketone peroxide, MEKP, MEK peroxide, Methyl ethyl ketone hydroperoxide,

Common Name	Synonym
Methyl formate	Methyl ester of formic acid, Methyl methanoate
Methyl isobutyl ketone	Isobutyl methyl ketone, 4-Methyl 2-pentanone, MIBK, hexone, MIK, shell MIBK
Methyl isocyanate	Methyl ester of isocyanic acid, MIC
Methyl isothiocyanate	Isothiocyanatomethane, Methyl mustard oil, Trapex
Methyl mercaptan	Mercaptomethane, Methanethiol, Methyl sulfhydrate,
Methyl methacrylate	Methacrylate monomer, Methyl ester of methacrylic acid, Methyl-2-methyl-2-propenoate,
Methyl salicylate	2-Hydrobenzoic acid methyl ester, Metoxybenzoic Aced, Sweet birch oil, Wintergreen oil
Methyl sulfide	dimethyl sulfide, dimethyl monosulfide
Methyl t-butyl ether	tert-Butoxymethane, tert-Butyl Methyl Ether, 1,1-Dimethylethyl methyl ether, 2-Methoxy-2-Methylpropane, Methyl 1,1-Dimethylethyl ether
Methyl-2-propen-1-ol, 2-	isopropenyl carbinol, methacryl alcohol, beta-methyl alcohol
Methyl-2-pyrrolidinone, N-	1-Methyl-2-pyrrolidinone, 1-Methyl-5-pyrrolidinone, NMP, Methyl pyrrolidone, M-Pyrol
Methyl-4,6-dinitrophenol, 2-	4,6-Dinitro-o-cresol, 3,5-Dinitro-2-hydroxytoluene
Methyl-5-hepten-2-one, 6-	sulcatone
Methylamine	Aminomethane, Methylamine (anhydrous), Methylamine (aqueous), Monomethylamine
Methylbutan-1-ol, 3-	Fermentation amyl alcohol, Fusel oil, Isobutyl carbinol, Isopentyl alcohol, 3-Methyl-1-butanol, Primary isoamyl alcohol
Methylcyclohexane	Cyclohexylmethane, Hexahydrotoluene
Methylcyclohexanol, 4-	Hexahydrocresol, Hexahydromethylphenol, p-Methylcyclohexanol
Methylcyclohexanone 2-	o-Methylcyclohexanone,
Methylheptan-3-one, 5-	Amyl ethyl ketone, Ethyl amyl ketone, 3-Methyl-5-heptanone,
Methylhexan-2-one, 5-	Isoamyl methyl ketone, Isopentyl methyl ketone, 2-Methyl-5-hexanone, 5-Methyl-2-hexanone, MIAK,
Methylhydrazine	MMH, Monomethylhydrazine
Methyl-N-2,4, 6-tetranitroaniline, N-	Tetryl, 2,4,6-Trinitrophenylmethylnitramine, Nitramine, Tetralite, Picrylnitromethylamine, n-methyl-n,2,4,6-teranitro benzenamine

Synonyms for Common Compounds Continued

Common Name	Synonym
Methylpent-3-en-2-one, 4-	Mesityl oxide, Isopropylideneacetone, Methyl isobutyl ketone
Methylpentan-2-ol, 4-	Isobutylmethylcarbinol, Methyl amyl alcohol, 4-Methyl-2-pentanol, MIBC, Methyl Isobutyl carbinol
Methylpentane-2,4-diol, 2-	, 2,4-Dihydroxy-2-methylpentane, 2-Methyl-2, 4-pentanediol 4-Methyl-2, 4-pentanediol 2-Methylpentane-2, 4-diol hexylene glycol,
Methylpropan-2-ol, 2-	Trimethyl carbinol, tert-butyl alcohol, tert-butanol
Methylstyrene	Ethenylmethylbenzene, Methylstyrene, Tolyethylene,
Mineral oil	drakeol, kaydol, parol, peneteck, white mineral oil
Mineral spirits	Dry cleaning safety solvent, Mineral spirits, Petroleum solvent, Spotting naphtha, Stoddard solvent, adepsine oil, alboline, bayol 55, bayol F, blandlube, crystol 325, crystosol, glymol, kondremul, liquid paraffin, neo-cultol, nujol, petrogalar, primol 355, primol D, saxol
Naphthalene	Naphthalin, Tar camphor, White tar, albocarbon, mighty 150, maoth balls, white tar
Neon	
Nitric oxide	nitrogen monoxide, mononitrogen monoxide
Nitroaniline 4-	para-Aminonitrobenzene, p-Nitroaniline, 4-Nitrobenzenamine, p-Nitrophenylamine, PNA,
Nitrobenzene	Essence of mirbane, Nitrobenzol, Oil of mirbane,
Nitroethane	Nitroetan
Nitrogen dioxide	dinitrogen tetroxide, nitrogen tetroxide, nitrogen peroxide, liquid dioxide
Nitrogen trichloride	Agene
Nitrogen trifluoride	Nitrogen fluoride, Trifluorammine, Trifluorammonia,
Nitromethane	Nitrocarbol
Nitropropane, 1-	Nitropropane, 1-NP
Nitropropane, 2-	dimethylnitromethane, isonitropropane, 2-NP, nitroisopropane
Nitrous oxide	Laughing gas, nitrogen oxide*, dinitrogen monoxide, hyponitrous acid anhydride, factitious air.
Nonane, n-	Nonane, Nonyl hydride, shellsol 140
Norbornadiene, 2,5-	bicyclo[2.2.1]hepta-2,5-diene

Common Name	Synonym
Octachloronaphthalene	Halowax® 1051 1,2,3,4,5,6,7,8-Octachloronaphthalene, Perchloronaphthalene
Octane, n-	Octane, normal-Octane
Octene, 1-	1-caprylene
Oxalic acid	Ethanedioic acid, Oxalic acid (aqueous), Oxalic acid dihydrate,
Oxalonnitrile	Carbon nitride, Dicyan, Dicyanogen, Ethanedinitrile, cyanogen
Oxydiethanol 2,2-	bis(2-hydroxyethyl) ether, brecolane NDG, diglycol, ethylene diglycol
Oxygen	Triatomic oxygen
Ozone	Triatomic oxygen
Paraffin wax, fume	Paraffin fume, Paraffin scale fume
Paraffins, normal	kerosene, (straight chain variant, see kerosene for generic paraffin)
Pentacarbonyl iron	Iron pentacarbonyl, iron carbonyl
Pentachloroethane	R120
Pentachlorofluoroethane	R111
Pentafluoroethane	R125
Pentan-2-one	Ethyl acetone, Methyl propyl ketone, MPK,
Pentan-3-one	DEK, Dimethylacetone, Ethyl ketone, Metacetone, diethyl ketone, Propione
Pentandione, 2,4-	acetyl acetone, acetyl 2-propanone, diacetylmethane
Pentane, n-	Pentane, normal pentane, amyl hydride, skellysolve A
Peracetic acid	peroxyacetic acid, Ethaneperoxic acid, Acetyl hydroperoxide
Perchloryl fluoride	Chlorine fluoride oxide, Chlorine oxyfluoride, Trioxychlorofluoride,
Perfluorocyclobutane	R C318, octafluorocyclobutane, cyclooctafluorobutane, R318, C4F8, AMAT17245
Perfluoropropane	R218, octafluoropropane
Petroleum ether	Light Pyrolysis Gasoline, Light Py-Gas, Benzin, Benzin, Benzin, Benzin, Benzin, Benzin, Benzin, Ligroin, pyrolysis gasoline
Phenol	Carbolic acid, Hydroxybenzene, Monohydroxybenzene, Phenyl alcohol, Phenyl hydroxide, phenylic acid

Synonyms for Common Compounds Continued

Common Name	Synonym
Phenyl propene, 2-	AMS, Isopropenyl benzene, 1-Methyl-1-phenylethylene, 2-Phenyl propylene, alpha-methyl styrene ,
Phenyl-2,3-epoxypropyl ether	, 1,2-Epoxy-3-phenoxy propane, Glycidyl phenyl ether, PGE, Phenyl glycidyl ether ,
Phenylenediamine, p-	1,4-diaminobenzene, 1,4-phenylenediamine, 4-amino-aniline, p-aminoaniline, p-benzenediamine, p-diaminobenzene, Para, paraphenylenediamine, phenylenediamine, para, solid, Oxidation Base 10 , Orsin, Pelagol D, Pelagol DR, Pelagol Grey D, Peltol D, PPD, Renal PF, Santoflex LC, Tertral D, Ursol D, USAF EK-394, ZOBA Black D, BASF Ursol D, Benzofur D, CI 76060, CI Developer 13, CI Oxidation Base 10, Developer 13, Developer PF, Durafur Black R, fenylenodwuamina (Polish), Fouramine D, Fourine 1, Fur Black 41866, Fur Black 41867, Fur Yellow, Furro D, Futramine D
Phosgene	carbonyl chloride, carbon oxychloride, chloroformyl chloride
Phosphine	Hydrogen phosphide, Phosphorated hydrogen, Phosphorus hydride, Phosphorus trihydride
Picoline, 3-	3-methyl-pyridine
Pinene, alpha	2,6,6-trimethylbicyclo[3,1,1]hept-2-ene, 2-pinene
Pinene, beta	nopinene, pseudopinene
Piperidine	azacyclohexane, cyclopentimine, cypentil, hexahydropyridine, hexazane
Piperylene	1-3-pentadiene, 1-methylbutadiene
Prop-2-yn-1-ol	2-propyn-1-ol, 1-propyne-3-ol, 2-propynyl alcohol, ethynylcarbinol, 1-hydroxy-2-propyne, 2-propynol, 3-propynol, ethynyl methanol, propargyl alcohol, propiolic alcohol, propynyl alcohol, STCC 4907440, RCRA P102, OHS19730
Propan-1-ol	Ethyl carbinol, 1-Propanol, n-Propanol, Propyl alcohol, n-propyl alcohol , 1-hydroxypropane, optal, osmosol extra
Propane	dimethylmethane, propyl hydride, bottled gas
Propane-1,2-diol, total	propylene glycol, methylethylene glycol
Propene	methylethylene
Propionaldehyde	methylacetaldehyde, propaldehyde, propanal, propionic aldehyde

Common Name	Synonym
Propionic acid	Carboxyethane, Ethanecarboxylic acid, Ethylformic acid, Metacetic acid, Methyl acetic acid, Propanoic acid
Propyl acetate, n-	Propylacetate, n-Propyl ester of acetic acid
Propylene dinitrate	1-2,Propylene Glycol Dinitrate
Propylene oxide	AD 6 (suspending agent), 1,2-epoxypropane, epoxypropane, methyl ethylene oxide, 1,2-epoxypropane, UN 1280 (Ref. 5.6.), 2,3-epoxypropane, methyl-ethylene oxide, epoxy-propane, methyl ethylene oxide, methyl oxirane, methyl-oxirane, epoxy-propane, NCI-C50099, oxyde de propylene (French), propene oxide, propylene epoxide, propyleneoxide
Propyleneimine	2-Methylaziridine, 2-Methylethyleneimine, Propyleneimine, Propylene imine (inhibited), Propylene imine, propylenimine
Pyridine	Azabenzene, Azine
Pyridylamine 2-	alpha-Aminopyridine, alpha-Pyridylamine , 2-pyridinamine, 2-aminopyridine
Silane	silicon tetrahydride, monosilane
Sodium fluoroacetate	Sodium monofluoroacetate, Flouroacetic acid, sodium salt
Styrene	Ethenyl benzene, Phenylethylene, Styrene monomer, Styrol, Vinyl benzene ,
Sulfur dioxide	Sulfurous acid anhydride, Sulfurous oxide, Sulfur oxide, Sulfotep
Sulfur hexafluoride	sulfur fluoride
Sulfur tetrafluoride	tetrafluorosulfurane
Sulfuric acid	Battery acid, Hydrogen sulfate, Oil of vitriol, Sulfuric acid (aqueous) , BOV, dihydrogen sulfate, dipping acid, electrolyte acid, matting acid
Sulfuryl fluoride	Sulfur difluoride dioxide, Vikane®
Terphenyls	
Terpinolene	1-Methyl-4-(1-methylethylidien)cyclohexene, p-Mentha-1,4(8)-diene
Tert-butanol	2-Methyl-2-propanol, Trimethyl carbinol , arconol, 1,1-dimethylethanol, trimethyl methanol
Tetrabromoethane, 1,1,2,2-	Acetylene tetrabromide
Tetracarbonylnickel	nickel carbonyl

Synonyms for Common Compounds Continued

Common Name	Synonym
Tetrachloro-1,2-difluoroethane, 1,1,2,2-	R112, Tetrachloro-1, 2-difluoroethane, 1,2-Difluoro-1,1,2,2-tetrachloroethane, Freon® 112, Halocarbon 112, Refrigerant 112
Tetrachloro-1-fluoroethane, 1,1,2,2-	R121
Tetrachloro-2,2-difluoroethane, 1,1,1,2-	R112a Tetrachloro-2, 2-difluoroethane, 1,1,1,2-2-Difluoro-1,1,2,2-tetrachloroethane, Halocarbon 112a, Refrigerant 112a
Tetrachloro-2-fluoroethane, 1,1,1,2-	R121a
Tetrachloroethane, 1,1,1,2-	
Tetrachloroethane, 1,1,2,2-	R130, Acetylene tetrachloride, Symmetrical tetrachloroethane,
Tetrachloroethylene	Perchloroethylene, ethylene tetrachloride, tetrachloroethylene, Nema, Tetracap, Tetropil, Perclene, Ankilostin, Didakene, Perk, Antisol 1, Carbon bichloride, Dilatin PT, Dow-per, Perchlor, Percosolve, Persec, Tetlen, Tetraleno, Tetralex, Tetravec, Tetroguer
Tetrachloronaphthalenes, all isomers	Halowax®, Nibren wax, Seekay wax,
Tetraethyl orthosilicate	Ethyl orthosilicate, Ethyl silicate (condensed), Tetraethoxysilane, Tetraethyl orthosilicate, Tetraethyl silicate, TEOS
Tetraethyllead	Lead tetraethyl, TEL, Tetraethylplumbane,
Tetrafluoroethane, 1,1,1,2-	R134a, R407c = 52% R134a (C ₂ H ₂ F ₄), 25% R125 (C ₂ HF ₅) and 23% R32 (CH ₂ F ₂), R404a = 52% R143a (CH ₃ F ₃), 44% R125 (C ₂ HF ₅) and 4% R134a (C ₂ H ₂ F ₄)
Tetrafluoroethane, 1,1,2,2-	R134
Tetrafluoroethylene	R1114
Tetrafluoromethane	
Tetrahydrofuran	Diethylene oxide, Agrisynth THF, 1,4-Epoxybutane, Tetramethylene oxide, THF, Alpha, Delta-oxide butane, Furanidine, Oxolane, Oxacyclopentane
Tetramethyl orthosilicate	Methyl orthosilicate, Tetramethoxysilane, Tetramethyl ester of silicic acid, Tetramethyl silicate, Methyl silicate
Tetramethyl succinonitrile	Tetramethylbutanedinitrile, Tetramethylsuccinic acid dinitrile
Therminol	type VP1:73.5wt% biphenyl oxide, bal. biphenyl
Thionyl chloride	Sulfanyl chloride, Sulfur chloride oxide, Sulfurous dichloride, Sulfurous oxychloride, Thionyl dichloride,

Common Name	Synonym
Toluene	methylbenzene, toluol, phenylmethane, Methacide, Antisal 1a, CP 25
Toluene-2,4-diisocyanate	TDI 2,4-TDI 2,4-Toluene diisocyanate,
Toluenesulfonyl chloride, p-	tosyl chloride
Toluidine, o-	2-aminotoluene, o-methaniline, CI 37077, o-methyl aniline
Tributyl phosphate	Butyl phosphate, TBP, Tributyl ester of phosphoric acid, Tri-n-butyl phosphate
Tributylamine	n,n-Dibutyl-1-butanamine, Tri-n-butylamine
Trichloro-1,1-difluoroethane, 1,2,2-	R122
Trichloro-1,2-difluoroethane, 1,1,2-	R122a
Trichloro-2,2-difluoroethane, 1,1,1-	R122b
Trichloro-2-fluoroethane, 1,1,2-	R131
Trichlorobenzene 1,2,4-	unsym-Trichlorobenzene 1,2,4-Trichlorobenzol
Trichloroethane, 1,1,1-	R140a, Aerothene TT, Chloroethene NU, Chlorothene, Chlorothene NU, Chlorothene VG, Chlorten, Inhibisol, methyl chloroform, methyltrichloromethane, NCI-C04626, Alpha-T, trichlorethane, a-trichloroethane.
Trichloroethane, 1,1,2-	R140, vinyl trichloride, beta-trichloroethane
Trichloroethylene	R1120, Trichloroethene, ethinyl trichloride, Tri-Clene, Trilene, Trichloren, Algylen, Trimar, Triline, Trethylene, Westrosol, Chlorylen, Gemalgene, Germalgene, TCE, ethylene trichloride
Trichlorofluoromethane	R11, Freon® 11, Monofluorotrichloromethane, Refrigerant 11, Trichlorofluoromethane, Trichloromonofluoromethane
Trichloronitromethane	Chloropicrin, Nitrochloroform
Trichlorophenoxyacetic acid, 2,4,5-	T, 2,4,5- (ISO)
Trichloropropane 1,2,3-	Allyl trichloride, Glycerol trichlorohydrin, Glyceryl trichlorohydrin, Trichlorohydrin
Trichlorotrifluoroethane, 1,1,1-	R113a, t-Wd602
Trichlorotrifluoroethane, 1,1,2-	R113, Freon 113, CFC-113, F-113, TTE
Triethylamine	, N,N-Diethylethanamine, (Diethylamino)ethane, DEA
Trifluoroethane, 1,1,1-	R143a, R404a = 52% R143a (CH ₃ F ₃), 44% R125 (C ₂ HF ₅) and 4% R134a (C ₂ H ₂ F ₄)
Trifluoroethane, 1,1,2-	R143
Trifluoroethanol, 2,2,2-	TFE

Synonyms for Common Compounds Continued

Common Name	Synonym
Trifluoromethane	R23
Trimethylamine	, N,N-Dimethylmethanamine
Trimethylbenzene mixtures	
Trimethylbenzene, 1,3,5-	Mesitylene, Symmetrical trimethylbenzene, sym-Trimethylbenzene,
Trinitrotoluene 2,4,6-	1-Methyl-2,4,6-trinitrobenzene
Turpentine	Gumspirits, Gum turpentine, Spirits of turpentine, Steam distilled turpentine, Sulfate wood turpentine, Turps, Wood turpentine,
Undecane, n-	hendecane
Vinyl acetate	acetic acid, vinyl ester, acetic acid, ethenyl ester, vinyl a monomer, ethenyl ethanoate, Vy Ac, 1-acetoethylene, VAC
Vinyl bromide	Bromoethene, Bromoethylene, Monobromoethylene,
Vinyl chloride	Chloroethene, Chloroethylene, Ethylene monochloride, Monochloroethene, Monochloroethylene, VC, Vinyl chloride monomer (VCM),
Vinyl-2-pyrrolidinone, 1-	n-vinylpyrrolidone
Water	Dihydrogen oxide, Hydrogen oxide
Xenon	
Xylene mixed isomers	Violet 3
Xylene, m-	, 1,3-Dimethylbenzene, meta-Xylene, m-Xylol
Xylene, o-	, 1,2-Dimethylbenzene, ortho-Xylene, o-Xylol
Xylene, p-	, 1,4-Dimethylbenzene, para-Xylene, p-Xylol
Xylidine, all	Aminodimethylbenzene, Aminoxylene, Dimethylaminobenzene, Dimethylaniline, Xylidine isomers (e.g. 2,4-Dimethylaniline) [Note: Dimethylaniline is also used as a synonym for N,N-Dimethylaniline.],