

Compound Name	Formula	CAS No.	TWA* (ppm)	b.p. (°C)	PID CF		mPower Instrument & Sensor			
					10.6 eV	NEO	POLI-PID	POLI	UNI	UNI 321
Acetaldehyde	C ₂ H ₄ O	75-07-0	C25	21	6	PID	PID/LEL/C ₂ H ₄ O	LEL/C ₂ H ₄ O	C ₂ H ₄ O	
Acetic Acid	C ₂ H ₄ O ₂	64-19-7	10	118	22	PID	PID/LEL	LEL		
Acetone	C ₃ H ₆ O	67-64-1	250	56	1.1	PID	PID/LEL	LEL		
Acetylene	C ₂ H ₂	74-86-2	NA	-84	NR		LEL	LEL		
Acrolein	C ₃ H ₄ O	107-02-8	0.1	53	3.9	PID	PID/LEL	LEL		
Acrylic Acid	C ₃ H ₄ O ₂	79-10-7	2	141	12	PID	PID			
Ammonia	NH ₃	7664-41-7	25	-33	9.7	PID	PID/LEL/NH ₃	LEL/NH ₃	NH ₃	
Aniline	C ₇ H ₇ N	62-53-3	2	184	0.48	PID				
Arsine	AsH ₃	7784-42-1	0.005	-63	1.9	PID	PID			
Benzene	C ₆ H ₆	71-43-2	0.5	80	0.53	PID	PID/LEL	LEL		
Benzyl Alcohol	C ₇ H ₈ O	100-51-6	10	205	1.1	PID				
Bromine	Br ₂	7726-95-3	0.1	59	1.3	PID	PID			
Bromoform	CHBr ₃	75-25-2	0.5	149	2.5	PID	PID			
Bromopropane, 1-	C ₃ H ₇ Br	106-94-5	10	71	1.5	PID	PID			
Butadiene	C ₄ H ₆	106-99-0	2	-4	0.85	PID	PID/LEL	LEL		
Butane, n-	C ₄ H ₁₀	106-97-8	1000	-1	NR		LEL	LEL		
Butanol, 1-	C ₄ H ₁₀ O	71-36-3	20	118	4.7	PID	PID/LEL	LEL		
Butanol, t-	C ₄ H ₁₀ O	75-65-0	100	82	2.9	PID	PID/LEL	LEL		
Butoxyethanol, 2-	C ₆ H ₁₄ O ₂	111-76-2	20	171	1.2	PID	PID			
Butyl Acetate, n-	C ₆ H ₁₂ O ₂	123-86-4	150	126	2.6	PID	PID/LEL	LEL		
Butyl Acrylate, n-	C ₇ H ₁₂ O ₂	141-32-2	2	145	1.6	PID	PID/LEL	LEL		
Butylamine, n-	C ₄ H ₁₁ N	109-73-9	C5	78	1.1	PID	PID			
Carbon Dioxide	CO ₂	124-38-9	5000	-79	NR		CO ₂	CO ₂		
Carbon Disulfide	CS ₂	75-15-0	1	46	1.2	PID	PID			
Carbon Monoxide	CO	630-08-0	25	-192	NR		CO	CO	CO	CO
Chlorine	Cl ₂	7782-50-5	0.1	-34	NR		Cl ₂	Cl ₂	Cl ₂	
Chlorine Dioxide	ClO ₂	10049-04-4	C0.1	10	NR		ClO ₂	ClO ₂	ClO ₂	
Chlorobenzene	C ₆ H ₅ Cl	108-90-7	10	131	0.4	PID	PID			
Cresol, m-	C ₇ H ₈ O	108-39-4	5	202	0.5	PID				

Cumene	C ₉ H ₁₂	98-82-8	50	152	0.54	PID	PID		
Cyclohexane	C ₆ H ₁₂	110-82-7	100	81	1.4	PID	PID/LEL	LEL	
Cyclohexanone	C ₆ H ₁₀ O	108-94-1	20	156	0.9	PID	PID/LEL		
Decane	C ₁₀ H ₂₂	124-18-5	NA	174	1.4	PID	PID		
Dibromo-3-chloropropane, 1, 2-	C ₃ H ₅ Br ₂ Cl	96-12-8	0.001	198	1.7	PID			
Dibromoethane, 1, 2-	C ₂ H ₄ Br ₂	106-93-4	0.045	131	1.7	PID	PID		
Dichlorobenzene, o-	C ₆ H ₄ Cl ₂	95-50-1	25	180	0.47	PID			
Dichloroethene, 1, 1-	C ₂ H ₂ Cl ₂	75-35-4	5	32	0.82	PID	PID		
Dichloroethene, t-1, 2-	C ₂ H ₂ Cl ₂	156-60-5	200	49	0.45	PID	PID		
Dicyclopentadiene	C ₁₀ H ₁₂	77-73-6	5	170	0.48	PID	PID		
Diesel Fuel #2	-----	68334-30-5	14	200-350	0.7	PID			
Dimethylformamide, N, N-	C ₃ H ₇ NO	68-12-2	5	153	0.7	PID	PID		
Dimethylhydrazine, 1, 1-	C ₂ H ₈ N ₂	57-14-7	0.01	63	0.78	PID			
Epichlorohydrin	C ₃ H ₅ ClO	106-89-8	0.5	118	8.5	PID	PID/LEL	LEL	
Ethane	C ₂ H ₆	74-84-0	1000	-89	NR		LEL	LEL	
Ethanol	C ₂ H ₆ O	64-17-5	1000	78	10	PID	PID/LEL	LEL	
Ethylene (Ethene)	C ₂ H ₄	74-85-1	200	-128	9	PID	PID/LEL	LEL	
Ethyl Acetate	C ₄ H ₈ O ₂	141-78-6	400	77	4.6	PID	PID/LEL	LEL	
Ethyl Acrylate	C ₅ H ₈ O ₂	140-88-5	5	99	2.4	PID	PID/LEL	LEL	
Ethyl Ether	C ₄ H ₁₀ O	60-29-7	400	35	1.1	PID	PID/LEL	LEL	
Ethyl Mercaptan	C ₂ H ₆ S	75-08-1	0.5	35	0.56	PID	PID/CH ₃ SH	CH ₃ SH	CH ₃ SH
Ethylbenzene	C ₈ H ₁₀	100-41-4	20	136	0.52	PID	PID		
Ethylene Glycol	C ₂ H ₆ O ₂	107-21-1	MAK 10	197	16	PID			
Ethylene Oxide	C ₂ H ₄ O	75-21-8	1	11	13	PID	PID/LEL/ETO	LEL/ETO	ETO
Gasoline	-----	8006-61-9	300	35-200	1	PID	PID/LEL	LEL	
Glutaraldehyde	C ₅ H ₈ O ₂	111-30-8	C0.05	187	0.8	PID	PID		
Heptane,n-	C ₇ H ₁₆	142-82-5	400	98	2.8	PID	PID/LEL	LEL	
Hexane,n-	C ₆ H ₁₄	110-54-3	50	68	4.3	PID	PID/LEL	LEL	
Hexanol,1-	C ₆ H ₁₄ O	111-27-3	NA	157	2.5	PID	PID/LEL	LEL	
Hydrazine	H ₄ N ₂	302-01-2	0.01	114	3	PID			
Hydrogen	H ₂	1333-74-0	Asphyxiant	-253	NR		H ₂	H ₂	H ₂

Hydrogen Chloride	HCl	7647-01-0	C2	-85	NR		HCl	HCl	HCl	
Hydrogen Cyanide	HCN	74-90-8	C4.7	26	NR		HCN	HCN	HCN	
Hydrogen Fluoride	HF	7664-39-3	0.5	20	NR		HF	HF	HF	
Hydrogen Iodide	HI	10034-85-2	NA	-35	0.6	PID	PID			
Hydrogen Sulfide	H ₂ S	7783-06-4	1	-60	3.3	PID	PID/H ₂ S	H ₂ S	H ₂ S	H ₂ S
Iodine	I ₂	7553-56-2	0.01	184	0.1	PID	PID			
Iodomethane	CH ₃ I	74-88-4	2	42	0.22	PID	PID			
Isobutane	C ₄ H ₁₀	75-28-5	1000	-12	NR		LEL	LEL		
Isobutanol	C ₄ H ₁₀ O	78-83-1	50	108	3.8	PID	PID/LEL	LEL		
Isobutylene	C ₄ H ₈	115-11-7	250	-7	1	PID	PID/LEL	LEL		
Isoprene	C ₅ H ₈	78-79-5	2	34	0.63	PID	PID/LEL	LEL		
Isopropanol	C ₃ H ₈ O	67-63-0	200	83	6	PID	PID/LEL	LEL		
Jet fuel JP-4	-----	-----	NA	70-240	1	PID	PID			
Jet fuel JP-5	-----	-----	29	180-270	0.6	PID	PID			
Jet fuel JP-8	-----	-----	30	170-270	0.6	PID	PID			
Limonene,D-	C ₁₀ H ₁₆	5989-27-5	30	176	0.33	PID	PID			
Mesitylene	C ₉ H ₁₂	108-67-8	25	165	0.35	PID	PID			
Methane	CH ₄	74-82-8	1000	-162	NR		LEL	LEL		
Methanol	CH ₄ O	67-56-1	200	65	NR		LEL	LEL		
Methoxyethoxyethanol,2-	C ₇ H ₁₆ O ₃	111-77-3	NA	194	1.2	PID	PID			
Methyl Acetate	C ₃ H ₆ O ₂	79-20-9	200	57	6.6	PID	PID/LEL	LEL		
Methyl Bromide	CH ₃ Br	74-83-9	1	4	1.7	PID	PID			
Methyl Ether	C ₂ H ₆ O	115-10-6	1000	-24	3.1	PID	PID/LEL	LEL		
Methyl Ethyl Ketone	C ₄ H ₈ O	78-93-3	200	80	0.86	PID	PID/LEL	LEL		
Methyl Isobutyl Ketone	C ₆ H ₁₂ O	108-10-1	20	117	0.8	PID	PID/LEL	LEL		
Methyl Isocyanate	C ₂ H ₃ NO	624-83-9	0.02	40	4.6	PID	PID/LEL	LEL		
Methyl Isothiocyanate	C ₂ H ₃ NS	551-61-6	IDLH 3	119	0.45	PID	PID			
Methyl Mercaptan	CH ₃ SH	74-93-1	0.5	6	0.54	PID	PID/CH ₃ SH	CH ₃ SH	CH ₃ SH	
Methyl Methacrylate	C ₅ H ₈ O ₂	80-62-6	50	101	1.5	PID	PID			
Methyl Sulfide	C ₂ H ₆ S	75-18-3	10	37	0.44	PID	PID			
Methyl t-Butyl Ether	C ₅ H ₁₂ O	1634-04-4	50	55	0.91	PID	PID/LEL	LEL		

Methyl-2-Pyrrolidinone,N-	C ₅ H ₉ NO	872-50-4	10	202	0.8	PID	PID			
Methylhydrazine	C ₂ H ₆ N ₂	60-34-4	0.01	87	1.2	PID	PID			
Mineral spirits	-----	8020-83-5	100	130-200	0.71	PID	PID			
Naphthalene	C ₁₀ H ₈	91-20-3	10	218	0.42	PID	PID			
Nitric Oxide	NO	10102-43-9	25	-152	5.2	PID	PID/NO	NO		NO
Nitrogen Dioxide	NO ₂	10102-44-0	0.2	21	16	PID	NO ₂	NO ₂		NO ₂
Octane,n-	C ₈ H ₁₈	111-65-9	300	125	1.8	PID	PID/LEL	LEL		
Oxygen	O ₂	7782-44-7	NA	-186	NR		O ₂	O ₂		O ₂
Ozone	O ₃	10028-15-6	0.05	-112	NR					O ₃
Pentane	C ₅ H ₁₂	109-66-0	1000	36	8.4	PID	PID/LEL	LEL		
Perchloroethene	C ₂ Cl ₄	127-18-4	25	121	0.57	PID	PID			
PGMEA	C ₆ H ₁₂ O ₃	108-65-6	50	146	1	PID	PID			
Phenol	C ₆ H ₆ O	108-95-2	5	182	1	PID	PID			
Phosphine	PH ₃	7803-51-2	0.05	-88	3.9	PID	PID/PH ₃ /LEL	PH ₃ /LEL		PH ₃
Pinene,b-	C ₁₀ H ₁₆	18172-67-3	20	166	0.37	PID	PID			
Piperylene, Isomer Mix	C ₅ H ₈	504-60-9	NA	43	0.69	PID	PID			
Propane	C ₃ H ₈	74-98-6	1000	-42	NR		LEL	LEL		
Propene	C ₃ H ₆	115-07-1	500	-48	1.4	PID	PID/LEL	LEL		
Propylene Oxide	C ₃ H ₆ O	16088-62-3	2	34	6.6	PID	PID/LEL	LEL		
Pyridine	C ₅ H ₅ N	110-86-1	1	115	0.68	PID	PID			
Styrene	C ₈ H ₈	100-42-5	20	145	0.4	PID	PID			
Sulfur Dioxide	SO ₂	7446-09-5	STEL 0.25	-10	NR		SO ₂	SO ₂		SO ₂
Tetrahydrofuran	C ₄ H ₈ O	109-99-9	50	66	1.7	PID	PID/LEL	LEL		
Tetramethyl Orthosilicate	C ₄ H ₁₂ O ₄ Si	681-84-5	1	121	1.9	PID				
Therminol VP-1	C ₁₂ H ₁₀ O & C ₁₂ H ₁₀	101-84-8 & 92-52-4	1	257	0.4	PID				
Toluene	C ₇ H ₈	108-88-3	20	111	0.5	PID	PID/LEL	LEL		
Tolylene-2,4-Diisocyanate	C ₉ H ₆ N ₂ O ₂	584-84-9	0.001	251	1.4	PID				
Trichloroethene	C ₂ HCl ₃	79-01-6	10	87	0.54	PID	PID			
Triethylamine	C ₆ H ₁₅ N	121-44-8	0.5	89	0.9	PID	PID			
Turpentine	C ₁₀ H ₁₆	8006-64-2	20	90-115	0.3	PID	PID			

Vinyl Chloride	C_2H_3Cl	75-01-4	1	-13	2	PID	PID/LEL	LEL
Vinyl-1-Cyclohexene,4-	C_8H_{12}	100-40-3	0.1	129	0.56	PID	PID	
Vinyl-2-Pyrrolidinone,1-	C_6H_9NO	88-12-0	0.05	94	0.8	PID		
Xylene,m-	C_8H_{10}	108-38-3	100	139	0.44	PID	PID	
Xylene,o-	C_8H_{10}	95-47-6	100	144	0.46	PID	PID	
Xylene,p-	C_8H_{10}	106-42-3	100	138	0.39	PID	PID	

* TWA taken as ACGIH 8-hr value wherever available. A few of these are AIHA WEELs or NIOSH RELs. C = Ceiling, STEL = Short Term Exposure Limit
MAK = German Maximum Allowable Concentration