



## Hazardous Chemicals-Vapor Phase Spectra

### *Library Listing – 304 spectra*

This library contains vapor phase spectra of toxic chemicals, pollutants and other contaminants. It is a collection of specific hazardous materials found on the EPA's Toxic Chemical list.

The Hazardous Chemicals Vapor Phase Library contains 304 spectra which are on the US Environmental Protection Agency's Office of Toxic Substances consolidated list of chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), also known as the Emergency Planning and Community Right-to-Know Act (EPCRA). The compounds in this library include chemicals referenced under the following federal statutory provisions:

- SARA Section 302 Extremely Hazardous Substances (EHS)
- CERCLA Hazardous Substances (Reportable Quantity Chemicals)
- SARA Section 313 Toxic Chemicals
- RCRA Hazardous Wastes

This library is complementary to the Hazardous Chemicals Condensed Phase Library.

## Hazardous Chemicals-Vapor Phase Spectra

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
76	(1-Methyl-2,4-cyclopentadien-1-yl)manganese tricarbonyl	250	2,4,6-Trichlorophenol
1	(Chloromethyl)trichlorosilane	37	2,4,6-Trifluoro-1,3,5-triazine; Cyanuric fluoride
176	(E)-1,2-Dichloroethylene	253	2,4,6-Trimethylaniline
47	(E)-1,4-Dichloro-2-butene	244	2,4-Dichlorophenol
267	(S)-(+)-2-Aminobutane; (S)-(+)-2-Butylamine	135	2,4-Dimethylphenol; 2,4-Xylenol
162	1,1,1,2-Tetrachloroethane	58	2,4-Dinitrotoluene
160	1,1,1-Trichloroethane	243	2,6-Dichlorophenol
163	1,1,2,2-Tetrachloroethane	255	2,6-Dimethylaniline; 2,6-Xylidine
159	1,1,2-Trichloroethane	144	2,6-Dinitrotoluene
286	1,1,2-Trichlorotrifluoroethane; CFC-113b	87	2-Butanone; Methyl ethyl ketone
156	1,1-Dichloroethane; Ethylidene dichloride	83	2-Butyl acetate; 1-Methylpropyl acetate
165	1,1-Dichloroethylene; Vinylidene chloride	149	2-Chloroacetophenone; Phenacyl chloride
192	1,1-Dimethylethylamine; t-Butylamine	65	2-Chloroethanol
26	1,1-Dimethylhydrazine	184	2-Chloroethyl ether; Bis(2-chloroethyl) ether
45	1,2,3,4,5,6-Hexachlorocyclohexane, g-isomer; Lindane	181	2-Chloroethyl vinyl ether
22	1,2,4,5-Tetrachlorobenzene	56	2-Chloronaphthalene
7	1,2,4-Trichlorobenzene	234	2-Chlorophenol
126	1,2,4-Trimethylbenzene	188	2-Ethoxyethanol
130	1,2-Benzanthracene	183	2-Fluoroethanol
161	1,2-Dibromoethane; Ethylene dibromide	211	2-Furaldehyde; Furan-2-carboxaldehyde; Furfural
20	1,2-Dibromotetrafluoroethane	249	2-Methoxy-4-methylaniline; 2-Methoxy-p-toluidine; 4-Methyl-o-anisidin
92	1,2-Dichlorobenzene	248	2-Methoxyaniline; o-Anisidine
157	1,2-Dichloroethane; Ethylene dichloride	187	2-Methoxyethanol
167	1,2-Dichloroethylene, (E) + (Z)	107	2-Methyl-1,3-phenylenediamine; 2,6-Diaminotoluene
155	1,2-Dichloropropane	174	2-Methyl-1-propanol; Isobutyl alcohol
287	1,2-Dichlorotetrafluoroethane; CFC-114	150	2-Methyl-2-propanol; t-Butanol
18	1,2-Dinitrobenzene	239	2-Methyl-5-vinylpyridine; 5-Vinyl-2-picoline
186	1,2-Epoxybutane	25	2-Methylaziridine
114	1,2-Ethanediol; Ethylene glycol	97	2-Methylphenol; o-Cresol
96	1,2-Methylenedioxy-4-propenylbenzene; Isosafrole	123	2-Methylpropenenitrile; Methacrylonitrile
289	1,3-Butadiene; Bivinyll	13	2-Methylpropionic acid; Isobutyric acid
118	1,3-Dichloro-2-propanone; 1,3-Dichloroacetone	122	2-Methylpropionitrile; Isobutyronitrile; Isopropyl cyanide
3	1,3-Dichlorobenzene	209	2-Methylpyridine; 2-Picoline
111	1,3-Dichloropropane	139	2-Nitrophenol
113	1,3-Dichloropropene, (E) + (Z)	202	2-Nitropropane
17	1,3-Dinitrobenzene	257	2-Nitrotoluene
36	1,4-Dichloro-2-butene, (E) + (Z)	29	2-Phenylphenol; 2-Hydroxybiphenyl
132	1,4-Dichlorobenzene	207	2-Propanol; Isopropyl alcohol
143	1,4-Dinitrobenzene	299	2-Propanone; Acetone
189	1,4-Dioxane	236	2-Propyn-1-ol; Propargyl alcohol
196	1-Amino-2-methylpropane; 2-Methylpropylamine; Isobutylamine	93	3,4-Dichlorophenyl isocyanate
171	1-Butanol; Butyl alcohol	101	3,4-Dinitrotoluene
57	1-Methyl-2-(3-pyridyl)pyrrolidine; Nicotine	116	3,5,5-Trimethyl-2-cyclohexen-1-one; Isophorone
204	1-Nitrosopyrrolidine	102	3-(Trifluoromethyl)aniline; 3-Aminobenzotrifluoride
81	2,2'-Iminodiethanol; Diethanolamine	82	3-Buten-2-one; Methyl vinyl ketone
138	2,3,4-Trichlorophenol	89	3-Chloropropionitrile
245	2,3,5-Trichlorophenol	38	3-Hydroxypropanesulfonic acid sultone; 1,3-Propane sultone
51	2,3,6-Trichlorophenol		
168	2,3-Dichloropropene		
49	2,4,5-Trichlorophenol		

## Hazardous Chemicals-Vapor Phase Spectra

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
262	3-Methylbutyl acetate; Isoamyl acetate	2	Benzyl chloride; a-Chlorotoluene
266	3-Methylphenol; m-Cresol	14	Biphenyl
48	3-Nitrophenol	21	Bis(2-ethylhexyl) adipate; Bis(2-ethylhexyl) hexanedioate
256	3-Nitrotoluene	70	Bis(2-ethylhexyl) phthalate
28	4,4'-Isopropylidenediphenol; Bisphenol A	303	Boron trichloride
8	4-Allyl-1,2-(methylenedioxy)benzene; Safrole	302	Boron trifluoride
98	4-Aminobiphenyl; 4-Biphenylamine	158	Bromodichloromethane
75	4-Aminopyridine	164	Bromoform; Tribromomethane
100	4-Bromophenyl phenyl ether; 4-Bromodiphenyl ether	293	Bromomethane; Methyl bromide
136	4-Chloro-3-methylphenol; 4-Chloro-m-cresol	285	Bromotrifluoromethane; CFC-13B1
252	4-Chloroaniline	230	Butyl acetate
251	4-Methoxyaniline; p-Anisidine	206	Butyl acrylate; Butyl propenoate
145	4-Methyl-1,2-phenylenediamine; 3,4-Diaminotoluene	197	Butylamine
141	4-Methyl-1,3-phenylenediamine; 2,4-Diaminotoluene	11	Butyraldehyde; Butanal
79	4-Methyl-2-pentanone; Methyl isobutyl ketone	212	Butyric acid; Butanoic acid
242	4-Methylphenol; p-Cresol	129	Carbon disulfide
142	4-Nitroaniline	62	Carbon tetrachloride; Tetrachloromethane
50	4-Nitrobenzyl chloride; a-Chloro-4-nitrotoluene	294	Carbonyl sulfide
140	4-Nitrophenol	134	Catechol; Pyrocatechol; 1,2-Dihydroxybenzene
147	4-Nitrotoluene	53	Chloroacetaldehyde
15	Acenaphthene	119	Chloroacetic acid
34	Acenaphthylene	99	Chlorobenzene
258	Acetaldehyde; Ethanal	110	Chlorodibromomethane
42	Acetamide	290	Chloroethane; Ethyl chloride
40	Acetic acid; Ethanoic acid	276	Chloromethane; Methyl chloride
210	Acetic anhydride	288	Chloropentafluoroethane; CFC-115
265	Acetonitrile; Methyl cyanide	216	Chlorotrimethylsilane; Trimethylsilyl chloride
218	Acetophenone; Acetylbenzene	117	Crotonaldehyde; 2-Butenal
85	Acetyl bromide	5	Cumene; Isopropylbenzene
223	Acetyl chloride	154	Cyclohexane
12	Acrolein; Propenal	213	Cyclohexanone
43	Acrylamide; Propenoamide	201	Cyclohexylamine
259	Acrylic acid; Propenoic acid	94	Dibenzofuran; Biphenylene oxide
208	Acrylonitrile; Vinyl cyanide	282	Diborane
224	Acryloyl chloride; Propenoyl chloride	124	Dibromomethane; Methylene bromide
41	Adipic acid; Hexanedioic acid	67	Dibutyl phthalate
125	Adiponitrile; 1,4-Dicyanobutane	284	Dichlorodifluoromethane; CFC-12
182	Allyl alcohol; 2-Propen-1-ol	235	Dichlorodimethylsilane
166	Allyl chloride; 1-Chloro-2-propene	91	Dichloromethane; Methylene chloride
200	Allylamine; 3-Amino-1-propene	52	Dichloromethylphenylsilane
272	Ammonia	238	Diethyl chlorophosphate
103	Aniline; Phenylamine; Benzeneamine	179	Diethyl ether; Ethyl ether; Ether
60	Anthracene	68	Diethyl phthalate
281	Arsine	254	Diethyl sulfate
175	Benzal chloride; a,a-Dichlorotoluene	193	Diethylamine
215	Benzene	127	Dimethyl chlorothiophosphate
146	Benzenethiol; Thiophenol	74	Dimethyl phthalate
64	Benzoic acid	227	Dimethyl sulfate
73	Benzonitrile	296	Dimethylamine
241	Benzotrichloride; a,a,a-Trichlorotoluene	86	Dimethylcarbonyl chloride
72	Benzoyl chloride	199	Dipropylamine
69	Benzyl butyl phthalate	80	Epichlorohydrin; 1-Chloro-2,3-epoxypropane; Glycidyl chloride
		152	Ethyl acetate
		221	Ethyl acrylate; Ethyl propenoate

## Hazardous Chemicals-Vapor Phase Spectra

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
263	Ethyl methacrylate; Ethyl 2-methylpropenoate	27	Pentachlorophenol
84	Ethyl methanesulfonate	225	Pentyl acetate; Amyl acetate
35	Ethyl thiocyanate	191	Perchloro(methyl mercaptan); Trichloromethanesulfonyl chloride
295	Ethylamine	32	Phenanthrene
151	Ethylbenzene	30	Phenyltrichlorosilane
279	Ethylene oxide; Oxirane	300	Phosgene; Carbonyl dichloride
271	Ethylene; Ethene	280	Phosphine
115	Ethylenediamine; 1,2-Diaminoethane	108	Phosphorous oxychloride
46	Ethyltrichlorosilane	106	Phosphorous trichloride
33	Fluoranthene	190	Piperidine
16	Fluorene	19	Piperylene, (E) + (Z); 1,3-Pentadiene, (E) + (Z)
283	Fluorotrchloromethane; CFC-11	264	Propionaldehyde; Propanal
39	Formic acid	61	Propionic acid; Propanoic acid
78	Furan	90	Propionic anhydride
177	Hexachloro-1,3-butadiene	120	Propionitrile; Ethyl cyanide
59	Hexachlorobenzene	88	Propyl chloroformate
178	Hexachlorocyclopentadiene	195	Propylamine
63	Hexachloroethane	185	Propylene oxide; 1,2-Epoxypropane
112	Hexachloropropene	269	Propylene; Propene
277	Hydrogen chloride	205	Pyridine
274	Hydrogen cyanide	77	Quinoline; Benzo[b]pyridine
304	Hydrogen fluoride	31	Resorcinol; 1,3-Dihydroxybenzene
278	Hydrogen sulfide	133	Styrene oxide; Epoxyethylbenzene; Phenylloxirane
137	Hydroquinone; 1,4-Dihydroxybenzene	233	Styrene; Vinylbenzene
109	Iodomethane; Methyl iodide	292	Sulfur dioxide
237	Iron pentacarbonyl	169	Tetrachloroethylene
261	Isobutyl acetate; 2-Methylpropyl formate	71	Tetraethyltin
24	Isobutyraldehyde; 2-Methylpropanal	229	Tetrahydrofuran
153	Isoprene; 2-Methyl-1,3-butadiene	131	Tetranitromethane
128	Malononitrile; Methylene cyanide	66	Toluene; Methylbenzene
214	Methacryloyl chloride; 2-Methylpropenoyl chloride	105	Tolylene 2,4-diisocyanate; 4-Methyl-1,3-phenylene diisocyanate
55	Methallylidene diacetate; 3,3-Diacetoxy-2-methylpropene	9	Tolylene 2,6-diisocyanate; 2-Methyl-1,3-phenylene diisocyanate
297	Methanethiol; Methyl mercaptan	121	Trichloroacetyl chloride
173	Methanol; Methyl alcohol	270	Trichloroethylene
220	Methyl acrylate; Methyl propenoate	10	Triethoxysilane
240	Methyl chloroformate	194	Triethylamine
226	Methyl isocyanate	291	Trimethylamine
228	Methyl isothiocyanate	44	Urethane; Ethyl carbamate
222	Methyl methacrylate; Methyl 2-methylpropenoate	219	Vinyl acetate
95	Methyl thiocyanate	172	Vinyl bromide; Bromoethylene
298	Methylamine	301	Vinyl chloride; Chloroethylene
198	Methylhydrazine	54	Xylenes, mixture of isomers
217	Methyltrichlorosilane	232	m-Xylene; 1,3-Dimethylbenzene
148	N,N-Dimethyl-1,4-phenylenediamine	247	o-Toluidine; 2-Methylaniline
4	N,N-Dimethylaniline	231	o-Xylene; 1,2-Dimethylbenzene
6	Naphthalene	246	p-Toluidine; 4-Methylaniline
273	Nitric oxide	268	p-Xylene; 1,4-Dimethylbenzene
104	Nitrobenzene	260	t-Butyl acetate
203	Nitrocyclohexane	180	t-Butyl methyl ether; 1,1-Dimethyl-1-methoxyethane
275	Nitrogen dioxide		
23	Pentachlorobenzene		
170	Pentachloroethane		