

4-2-5 Examples of chemical substances which constitute a group of substances

Refer to the following table to see into what kind of individual metallic elements, etc. should specified substances be converted.

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (×)	Reason why it is not applicable (water solubility or the like)	Other specified substance
1	Zinc compounds (water-soluble)	7646-85-7	Zinc chloride	ZnCl ₂	136.3	65.4	0.480			
		557-34-6	Zinc acetate (anhydrite)	Zn(CH ₃ COO) ₂	183.5	65.4	0.356			
		5970-45-6	Zinc acetate (2 hydrate)	Zn(CH ₃ COO) ₂ ·2H ₂ O	219.5	65.4	0.298			
		10196-18-6	Zinc nitrate (6 hydrate)	Zn(NO ₃) ₂ ·6H ₂ O	297.5	65.4	0.220			
		7733-02-0	Zinc sulfate (7 hydrate)	ZnSO ₄ ·7H ₂ O	287.5	65.4	0.227			
		13530-65-9	Zinc chromate	ZnCrO ₄	181.4	65.4	0.360	×	Refractory	Subject as chrometes
		1314-13-2	Zinc oxide	ZnO	81.4	65.4	0.803	×	Insoluble	
		557-21-1	Zinc cyanide	Zn(CN) ₂	117.4	65.4	0.557	×	5.8 × 10 ⁻³ g/L	Subject as inorganic cyanides
		557-05-1	Zinc stearate	[CH ₃ (CH ₂) ₁₆ COO] ₂ Zn	632.3	65.4	0.103	×	Insoluble	
		1314-98-3	Zinc sulfide	ZnS	97.4	65.4	0.671	×	1.43 × 10 ⁻⁷ g/L	
7779-90-0	Zinc phosphate	Zn ₃ (PO ₄) ₂	386.1	196.1	0.508	×	Almost insoluble (K _{sp} =9.1 × 10 ⁻³³)			
25	Antimony and its compounds	7440-36-0	Antimony	Sb	121.8	121.8	1.000			
		10025-91-9	Antimony chloride	SbCl ₃	228.1	121.8	0.534			
		1314-60-9	Antimony pentoxide	Sb ₂ O ₅	323.5	243.5	0.753			
		1309-64-4	Antimony (III) oxide	Sb ₂ O ₃	291.5	243.5	0.835			
		28300-74-5	Antimony potassium tartrate	C ₄ H ₄ KO ₇ Sb·0.5H ₂ O	333.9	121.8	0.365			
		7803-52-3	Stibine	SbH ₃	124.8	121.8	0.976			
60	Cadmium and its compounds	7440-43-9	Cadmium	Cd	112.4	112.4	1.000			
		10108-64-2	Cadmium chloride (anhydrite)	CdCl ₂	183.3	112.4	0.613			
		35658-65-2	Cadmium chloride (1 hydrate)	CdCl ₂ ·H ₂ O	201.3	112.4	0.558			

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (×)	Reason why it is not applicable (water solubility or the like)	Other specified substance
		10325-94-7	Cadmium nitrate (anhydride)	Cd(NO ₃) ₂	236.4	112.4	0.475			
		10022-68-1	Cadmium nitrate (4 hydrate)	Cd(NO ₃) ₂ · 4H ₂ O	308.5	112.4	0.364			
		1306-23-6	Cadmium sulfide	CdS	144.5	112.4	0.778			
		10124-36-4	Cadmium sulfate (anhydrate)	CdSO ₄	208.5	112.4	0.539			
		7790-84-3	Cadmium sulfate (8/3 hydrate)	CdSO ₄ · 8/3H ₂ O	256.5	112.4	0.438			
64	Silver and its water-soluble compounds	7440-22-4	Silver	Ag	107.9	107.9	1.000			
		7783-92-8	Silver chlorate (I)	AgClO ₃	191.3	107.9	0.564			
		7761-88-8	Silver nitrate (I)	AgNO ₃	169.9	107.9	0.635			
		7783-90-6	Silver chloride (I)	AgCl	143.3	107.9	0.753	×	0.155mg /100mL	
		20667-12-3	Silver (I) oxide	Ag ₂ O	231.7	215.7	0.931	×	0.0174g/L	
		506-64-9	Silver cyanide (I)	AgCN	133.9	107.9	0.806	×	2.2 × 10 ⁻⁴ g/L	Subject as inorganic cyanides
		10294-26-5	Silver sulfate (I)	Ag ₂ SO ₄	311.8	215.7	0.692	×	0.79%	
68	Chromium and chromium (III) compounds	7440-47-3	Chromium	Cr	52.0	52.0	1.000			
		1308-38-9	Chromium oxide (III)	Cr ₂ O ₃	152.0	104.0	0.684			
		64093-79-4	Chromium subsulfate (III)	Cr(OH)(SO ₄)	165.1	52.0	0.315			
69	Chromium (IV) compounds	13530-65-9	Zinc chromate	ZnCrO ₄	181.4	52.0	0.287			Out of object as zinc since this is not water-soluble
		7789-00-6	Potassium chromate	K ₂ CrO ₄	194.2	52.0	0.268			
		13765-19-0	Calcium chromate (2 hydrate)	CaCrO ₄ · 2H ₂ O	192.1	52.0	0.271			
		7789-06-2	Strontium chromate	SrCrO ₄	203.6	52.0	0.255			
		7758-97-6	Lead chromate	PbCrO ₄	323.2	52.0	0.161			Object as lead

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (x)	Reason why it is not applicable (water solubility or the like)	Other specified substance
		10294-40-3	Barium chromate	BaCrO ₄	253.3	52.0	0.205			Out of object as barium since this is not water-soluble
		1333-82-0	Chromium trioxide	CrO ₃	100.0	52.0	0.520			
		7778-50-9	Potassium dichromate	K ₂ Cr ₂ O ₇	294.3	104.0	0.353			
		7789-12-0	Sodium dichromate (2 hydrate)	Na ₂ Cr ₂ O ₇ · 2H ₂ O	298.0	104.0	0.349			
100	Cobalt and its compounds	7440-48-4	Cobalt	Co	58.9	58.9	1.000			
		6147-53-1	Cobalt acetate (II) (4 hydrate)	Co(CH ₃ COO) ₂ · 4H ₂ O	249.1	58.9	0.237			
		1308-06-1	Tricobalt tetraoxide	Co ₃ O ₄	240.8	176.8	0.734			
		1307-96-6	Cobalt (II) oxide	CoO	74.9	58.9	0.786			
		10026-22-9	Cobalt nitrate (II) (6 hydrate)	Co(NO ₃) ₂ · 6H ₂ O	291.0	58.9	0.202			
		513-79-1	Cobalt carbonate (II)	CoCO ₃	118.9	58.9	0.495			
		10026-24-1	Cobalt sulfate (II) (7 hydrate)	CoSO ₄ · 7H ₂ O	281.1	58.9	0.210			
108	Inorganic cyanide compounds (except complex salts and cyanates)	74-90-8	Hydrogen cyanide	HCN	27.0	26.0	0.963			
		557-21-1	Zinc cyanide	Zn(CN) ₂	117.4	52.0	0.443			Out of object as zinc since this is not water-soluble
108	Inorganic cyanide compounds (except complex salts and cyanates)	151-50-8	Potassium cyanide	KCN	65.1	26.0	0.400			
		506-64-9	Silver cyanide (I)	AgCN	133.9	26.0	0.194			Out of object as silver since this is not water-soluble

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (×)	Reason why it is not applicable (water solubility or the like)	Other specified substance
		544-92-3	Copper cyanide (I)	CuCN	89.6	26.0	0.290			Out of object as copper since this is not water-soluble
		143-33-9	Sodium cyanide	NaCN	49.0	26.0	0.531			
		75-86-5	Acetone cyanohydrin	(CH ₃) ₂ C(OH)CN	85.1	-	-	×	Organic cyanides	
		109-78-4	Ethylene cyanohydrin	C ₃ H ₅ NO	71.1	-	-	×	Organic cyanides	
		156-62-7	Calcium cyanamide	CaNCN	80.1	-	-	×	Organic cyanides	
		917-61-3	Sodium cyanate	NaOCN	65.0	-	-	×	cyanates	
175	Mercury and its compounds	7439-97-6	Mercury	Hg	200.6	200.6	1.000			
		7487-94-7	Mercury chloride (II)	HgCl ₂	271.5	200.6	0.739			
		1600-27-7	Mercury acetate (II)	Hg(CH ₃ COO) ₂	318.7	200.6	0.629			
		21908-53-2	Mercury oxide (II)	HgO	216.6	200.6	0.926			
		7789-47-1	Mercury bromide (II)	HgBr ₂	360.4	200.6	0.557			
176	Organic tin compounds	818-08-6	Dibutyl tin oxide	(C ₄ H ₉) ₂ SnO	249.0	118.7	0.477			
		594-27-4	Tetramethyl tin	(CH ₃) ₄ Sn	178.8	118.7	0.664			
		1461-22-9	Tributyl tin chloride	(C ₄ H ₉) ₃ SnCl	325.5	118.7	0.365			
		2273-43-0	Monobutyl tin hydroxydioxide	C ₄ H ₉ Sn(OH)O	208.8	118.7	0.568			
178	Selenium and its compounds	7782-49-2	Selenium	Se	79.0	79.0	1.000			
		7446-08-4	Selenium dioxide	SeO ₂	111.0	79.0	0.712			
		7783-07-5	Hydrogen selenide	SeH ₂	81.0	79.0	0.975			
		7783-08-6	Selenic acid	H ₂ SeO ₄	145.0	79.0	0.545			
		7783-00-8	Selenious acid	H ₂ SeO ₃	129.0	79.0	0.612			
207	Copper salts (water-soluble, except	7447-39-4	Copper chloride (II) (anhydride)	CuCl ₂	134.5	63.5	0.473			

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (×)	Reason why it is not applicable (water solubility or the like)	Other specified substance
	complex salts)	13933-17-0	Copper chloride (II) (2 hydrate)	$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$	170.5	63.5	0.373			
		38465-60-0	Copper fluoborate (II)	$\text{Cu}(\text{BF}_4)_2$	237.2	63.5	0.268			Object as boron. Out of object as hydrogen fluoride salts since this is not water-soluble
		7758-98-7	Copper sulfate (II) (anhydride)	CuSO_4	159.6	63.5	0.398			
		7758-99-8	Copper sulfate (II) (5 hydrate)	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	249.7	63.5	0.255			
		544-92-3	Copper cyanide (I)	CuCN	89.6	63.5	0.709	×	2.6×10^{-3} g/L (18)	Object as inorganic cyanides
		12069-69-1	Copper carbonate hydroxide	$\text{Cu}_2(\text{OH})_2\text{CO}_3$	221.1	127.1	0.575	×	Insoluble	
		1111-67-7	Copper thiocyanate (I)	CuSCN	121.6	63.5	0.522	×	4.4×10^{-3} g/L (18)	
207	Copper salts (water-soluble, except complex salts)	10380-28-6	Oxine copper	$\text{C}_{18}\text{H}_{12}\text{CuN}_2\text{O}_2$	351.9	-	1.000	×	insoluble	Object as oxine copper (class 1: 246)
230	Lead and its compounds	7439-92-1	Lead	Pb	207.2	207.2	1.000			
		7758-97-6	Lead chromate (II)	PbCrO_4	323.2	207.2	0.641			Object as chromates
		301-04-2	Lead acetate (II) (anhydride)	$\text{Pb}(\text{CH}_3\text{COO})_2$	325.3	207.2	0.637			
		6080-56-4	Lead acetate (II) (3 hydrate)	$\text{Pb}(\text{CH}_3\text{COO})_2 \cdot 3\text{H}_2\text{O}$	379.3	207.2	0.546			
		1314-41-6	Trilead tetraoxide	Pb_3O_4	685.6	621.6	0.907			
		1317-36-8	Plumbous oxide	PbO	223.2	207.2	0.928			
		20837-86-9	Lead cyanamide	PbCN_2	247.2	207.2	0.838			

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (×)	Reason why it is not applicable (water solubility or the like)	Other specified substance
		12626-81-2	Lead zirconate titanate	Pb(Ti,Zr)O ₃ (Calculated as PbTiO ₃)	303.1	207.2	0.684			
		75-74-1	Tetramethyl lead	Pb(CH ₃) ₄	267.3	207.2	0.775			
		7446-27-7	Lead phosphate (II)	Pb ₃ (PO ₄) ₂	811.5	621.6	0.766			
231	Nickel	7440-02-0	Nickel	Ni	58.7	58.7	1.000			
232	Nickel compounds	6018-89-9	Nickel acetate (4 hydrate)	Ni(CH ₃ COO) ₂ ·4H ₂ O	248.9	58.7	0.236			
		1313-99-1	Nickel (II) oxide	NiO	74.7	58.7	0.786			
		1314-06-3	Nickel (III) oxide	Ni ₂ O ₃	165.4	117.4	0.710			
		13138-45-9	Nickel nitrate (II) (anhydride)	Ni(NO ₃) ₂	182.7	58.7	0.321			
		13478-00-7	Nickel nitrate (II) (6 hydrate)	Ni(NO ₃) ₂ ·6H ₂ O	290.8	58.7	0.202			
		3333-67-3	Nickel carbonate (II) (anhydride)	NiCO ₃	118.7	58.7	0.494			
		10101-98-1	Nickel sulfate (II) (7 hydrate)	NiSO ₄ ·7H ₂ O	280.9	58.7	0.209			
		10381-36-9	Nickel phosphate (II)	Ni ₃ (PO ₄) ₂	366.1	176.1	0.481			
243	Barium and its water-soluble compounds	7440-39-3	Barium	Ba	137.3	137.3	1.000			
		10361-37-2	Barium chloride (anhydride)	BaCl ₂	208.2	137.3	0.659			
		10326-27-9	Barium chloride (2 hydrate)	BaCl ₂ ·2H ₂ O	244.3	137.3	0.562			
		10022-31-8	Barium nitrate	Ba(NO ₃) ₂	261.3	137.3	0.525			
		17194-00-2	Barium hydroxide	Ba(OH) ₂	171.3	137.3	0.801			
		12230-71-6	Barium hydroxide (8 hydrate)	Ba(OH) ₂ ·8H ₂ O	315.5	137.3	0.435			
		10294-40-3	Barium chromate	BaCrO ₄	253.3	137.3	0.542	×	3.7 × 10 ⁻³ g/L	Object as chromates
		1304-29-6	Barium peroxide	BaO ₂	169.3	137.3	0.811	×	0.168g/100g	

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (×)	Reason why it is not applicable (water solubility or the like)	Other specified substance
		7787-32-8	Barium fluoride	BaF ₂	175.3	137.3	0.783	×	1.614g/L (25)	Out of object as hydrogen fluoride salts since this is not water-soluble
		7727-43-7	Barium sulfate	BaSO ₄	233.4	137.3	0.588	×	2.4mg/L	
252	Arsenic and its inorganic compounds	7440-38-2	Arsenic	As	74.9	74.9	1.000			
		7784-42-1	Arsine	AsH ₃	77.9	74.9	0.961			
		1303-28-2	Arsenic pentoxide	As ₂ O ₅	229.8	149.8	0.652			
		1327-53-3	Arsenic trioxide	As ₂ O ₃	197.8	149.8	0.757			
		7778-39-4	Arsenic acid	H ₃ AsO ₄	141.9	74.9	0.528			
283	Hydrogen fluoride and its water-soluble salts	7664-39-3	Hydrogen fluoride	HF	20.0	19.0	0.950			
		7783-82-6	Tungsten hexafluoride	WF ₆	297.8	114.0	0.383			
		12125-01-8	Ammonium fluoride	NH ₄ F	37.0	19.0	0.513			
		7681-49-4	Sodium fluoride	NaF	42.0	19.0	0.452			
		7787-49-7	Beryllium fluoride	BeF ₂	47.0	38.0	0.808			Subject as beryllium
		16961-83-4	Silicofluoric acid	H ₂ SiF ₆	144.1	114.0	0.791	×	Not salt of hydrogen fluoride	
		16893-85-9	Sodium silicofluoride	Na ₂ SiF ₆	188.1	114.0	0.606	×		
		7783-54-2	Nitrogen trifluoride	NF ₃	71.0	57.0	0.803	×		
		7637-07-2	Boron trifluoride	BF ₃	67.8	57.0	0.841	×	Not salt of hydrogen fluoride	Subject as boron
		7784-18-1	Aluminum fluoride	AlF ₃	84.0	57.0	0.679	×	0.559g in 100mL	
7787-32-8	Barium fluoride	BaF ₂	175.3	38.0	0.217	×	1.614g/L (25)	Out of subject as barium since this is not water-soluble.		

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (×)	Reason why it is not applicable (water solubility or the like)	Other specified substance
		7782-41-4	Fluorine	F ₂	38.0	38.0	1.000	×	Not salt of hydrogen fluoride	
		14075-53-7	Potassium fluoborate	KBF ₄	125.9	76.0	0.604	×	Not salt of hydrogen fluoride	Subject as boron
		16872-11-0	Fluoboric acid	HF ₄	87.8	76.0	0.865	×		
		13814-97-6	Tin fluoborate (II)	Sn(BF ₄) ₂	292.3	152.0	0.520	×		
		38465-60-0	Copper fluoborate (II)	Cu(BF ₄) ₂	237.2	152.0	0.641	×	Not salt of hydrogen fluoride	Subject as boron and copper
		13755-29-8	Sodium fluoborate	NaBF ₄	109.8	76.0	0.692	×	Not salt of hydrogen fluoride	Subject as boron
		-	Sodium fluoborate	NaFO ₃	90.0	19.0	0.211	×	Not salt of hydrogen fluoride	
		2551-62-4	Sulfur hexafluoride	SF ₆	146.1	114.0	0.780	×	fluoride	
294	Beryllium and its compunds	7440-41-7	Beryllium	Be	9.0	9.0	1.000			
		1304-56-9	Beryllium oxide	BeO	25.0	9.0	0.360			
		7787-49-7	Beryllium fluoride	BeF ₂	47.0	9.0	0.192			Subject as hydorogen fluoride salts
304	Boron and its compounds	7440-42-8	Boron	B	10.8	10.8	1.000			
		1303-86-2	Boric oxide	B ₂ O ₃	69.6	21.6	0.311			
		7637-07-2	Boron trifluoride	BF ₃	67.8	10.8	0.159			Out of subject as hydrogen fluoride salts since this is not salt of hydrogen fluoride
		10043-35-3	Boric acid	H ₃ BO ₃	61.8	10.8	0.175			
304	Boron and its compounds	7632-04-4	Sodium perborate	NaBO ₃	81.8	10.8	0.132			
		10332-33-9	Sodium perborate (1 hydrate)	NaBO ₃ ·H ₂ O	99.8	10.8	0.108			
		10486-00-7	Sodium perborate (4 hydrate)	NaBO ₃ ·4H ₂ O	153.9	10.8	0.070			
		12007-89-5	Ammonium pentaborate	NH ₄ B ₅ O ₈	200.1	54.1	0.270			

Number specified in Cabinet Order	Name of specified substance	CAS No.	Example of individual substance	Composition formula	Molecular weight	Total of atomic weights of metals and the like (M)	Conversion coefficient (M/molecular weight)	Not applicable (x)	Reason why it is not applicable (water solubility or the like)	Other specified substance
		1330-43-4	Sodium tetraborate	Na ₂ B ₄ O ₇	201.2	43.2	0.215			
		1303-96-4	Sodium tetraborate (10 hydrate)	Na ₂ B ₄ O ₇ · 10H ₂ O	381.2	43.2	0.113			
		14075-53-7	Potassium fluoborate	KBF ₄	125.9	10.8	0.086			Out of subject as hydrogen fluoride salts since this is not salt of hydrogen fluoride
		16872-11-0	Fluoborate acid	HF ₄	87.8	10.8	0.123			
		13814-97-6	Tin fluoborate (II)	Sn(BF ₄) ₂	292.3	21.6	0.074			
		38465-60-0	Copper fluoborate (II)	Cu(BF ₄) ₂	237.2	21.6	0.091			
		13755-29-8	Sodium fluoborate	NaBF ₄	109.8	10.8	0.098			
311	Manganese and its compounds	7439-96-5	Manganese	Mn	54.9	54.9	1.000			
13446-34-9	Manganous chloride (II) (4 hydrate)	MnCl ₂ · 4H ₂ O	197.9	54.9	0.278					
7722-64-7	Potassium permanganate	KMnO ₄	158.0	54.9	0.348					
638-38-0	Manganese (II) acetate	Mn(CH ₃ COO) ₂	173.0	54.9	0.318					
6156-78-1	Manganese (II) acetate (4 hydrate)	Mn(CH ₃ COO) ₂ · 4H ₂ O	245.1	54.9	0.224					
1313-13-9	Manganese dioxide	MnO ₂	86.9	54.9	0.632					
10377-66-9	Manganese nitrate (II)	Mn(NO ₃) ₂	178.9	54.9	0.307					
598-62-9	Manganese carbonate (II)	MnCO ₃	114.9	54.9	0.478					
10034-99-8	Manganese sulfate (II) (7 hydrate)	MnSO ₄ · 7H ₂ O	277.1	54.9	0.198					
10124-54-6	Manganese phosphate	MnxPO ₄ (Calculated as Mn ₃ (PO ₄) ₂)	354.8	164.8	0.465					
346	Molybdenum and its compounds	7439-98-7	Molybdenum	Mo	95.9	95.9	1.000			
		1313-27-5	Molybdenum trioxide	MoO ₃	143.9	95.9	0.667			
		12027-67-7	Ammonium molybdate	(NH ₄) ₆ Mo ₇ O ₂₄	1163.8	671.6	0.577			
		7631-95-0	Sodium molybdate	Na ₂ MoO ₄	205.9	95.9	0.466			

"Water soluble" means that mass percentage of 1 % or more is dissolved in chemically neutral water (10g/L) at an ordinary temperature.

4-2-6 Table of physical properties of specified substances

Refer to the following table that lists physical properties to make engineering calculations or judge to which medium, air or water, larger quantity is released.

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
1	-	zinc compounds (water-soluble)													
2	79-06-1	acrylamide	C ₃ H ₅ NO	71.1	84.5	125 (25mmHg)	7.0 × 10 ⁻³ mmHg	20	2155 g/l	30	-0.67	3.08 × 10 ⁻⁵	1.122	30	S
3	79-10-7	acrylic acid	C ₃ H ₄ O ₂	72.1	12.3	141.6	3.1 mmHg	20	miscible		0.36		1.0511	20	L/S
4	140-88-5	ethyl acrylate	C ₅ H ₈ O ₂	100.1	-71.2	99.4	29.3 mmHg	20	20 g/l	20	1.32	19.5	0.9234	20	L
5	2439-35-2	2-(dimethylamino)ethyl acrylate	C ₇ H ₁₃ NO ₂	143.2											
6	96-33-3	methyl acrylate	C ₄ H ₆ O ₂	86.1	-76.5	80.5	86.6 mmHg	25	60 g/l	20	0.8	16.6	0.9535	20	L
7	107-13-1	acrylonitrile	C ₃ H ₃ N	53.1	-82	77.3	100 mmHg	23	70 g/l	20	0.25	19.1	0.8004	25	L
8	107-02-8	acrolein	C ₃ H ₄ O	56.1	-88	52.5	210 mmHg	20	206 g/l	20	-0.09	7.62	0.8389	20	L
9	103-23-1	bis(2-ethylhexyl) adipate	C ₂₂ H ₄₂ O ₄	370.6	-67.8	214 (5mmHg)	8.5X10 ⁻⁷ mmHg	20	0.78 mg/l	22	6.11 (calculated)	0.0538	0.922	25	L
10	111-69-3	adiponitrile	C ₆ H ₈ N ₂	108.1	1	295	6.8X10 ⁻⁴ mmHg	25	80,000 mg/l	20	-0.32	1.23 × 10 ⁻⁴	0.9676	20	L
11	75-07-0	acetaldehyde	C ₂ H ₄ O	44.1	-123.5	21	740 mmHg	25	miscible		-0.34		0.788	16	G/L
12	75-05-8	acetonitrile	C ₂ H ₃ N	41.1	-45	81.6	87 mmHg	24	miscible		-0.34		0.7857	15	L
13	78-67-1	2,2'-azobisisobutyronitrile	C ₈ H ₁₂ N ₄	164.2	105				not-soluble		1.1				S
14	90-04-0	o-anisidine	C ₇ H ₉ NO	123.2	5	225	0.014 mmHg	25	14 g/l	25	1.18	0.0164	1.098	15	L
15	62-53-3	aniline	C ₆ H ₇ N	93.1	-6.3	184-186	0.49 mmHg	25	34 g/l	25	0.9	0.179	1.022	20	L
16	141-43-5	2-aminoethanol	C ₂ H ₇ NO	61.1	10.3	170.8	0.404 mmHg	25	miscible		-1.31		1.018	20	L/S
17	111-40-0	diethylenetriamine	C ₄ H ₁₃ N ₃	103.2	-39	207	0.232 mmHg	25	miscible		-2.13 (calculated)		0.9586	20	L
18	120068-37-3	fipronil	C ₁₂ H ₄ Cl ₂ F ₆ N ₄ OS	437.1	200.5				1.9 mg/l	20	4				S
19	61-82-5	amitrole	C ₂ H ₄ N ₄	84.1	159		< 7.5X10 ⁻⁶ mmHg	20	280 g/l	25	-0.86 (calculated)	3.00 × 10 ⁻⁷	1.138	20	S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
20	51276-47-2	glufosinate	C ₅ H ₁₂ NO ₄ P	181.1							-3.96 (calculated)				S
21	591-27-5	m-aminophenol	C ₆ H ₇ NO	109.1	122-123	164 (11mmHg)	Low volatility		40 %		0.17				S
22	107-18-6	allyl alcohol	C ₃ H ₆ O	58.1	-129	96-97	23.8 mmHg	25	>10 %		0.17	1.84	0.8540	20	L
23	106-92-3	1-allyloxy-2,3-epoxypropane	C ₆ H ₁₀ O ₂	114.1	100	153.9 (760mmHg)	4.7 mmHg	25	14.1 %		0.45 (calculated)	0.51	0.9698	20	L
24		- n-alkylbenzenesulfonic acid and its salts (alkyl C=10-14)													
25		- antimony and its compounds													
26	1332-21-4	asbestos													
27	4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	C ₁₂ H ₁₈ N ₂ O ₂	222.3	-60	158 (10mmHg)	0.0003 mmHg	20	not-soluble (react with water)				1.0628	20	L
28	78-79-5	isoprene	C ₅ H ₈	68.1	-145.9	34.067	550 mmHg	25	642 ppm	25	2.42	7780	0.681	20	L
29	80-05-7	bisphenol A	C ₁₅ H ₁₆ O ₂	228.3	150-155	220 (4mmHg)	4X10 ⁻⁸ mmHg	25	120 mg/l	25	3.32	1.01 x 10 ⁻⁵	1.195	25	S
30	25068-38-6	bisphenol A type epoxy resin (liquid)	(C ₁₈ H ₂₀ O ₃) _n C ₂₁ H ₂₄ O ₄		65-90										L
31	4162-45-2	2,2'-(isopropylidenebis[(2,6-dibromo-4,1-phenyleneoxy)]diethanol	C ₁₉ H ₂₀ Br ₄ O ₄	632.0	107				0.000159 mg/l	25	6.78 (calculated)				S
32	96-45-7	2-imidazolidinethione	C ₃ H ₆ N ₂ S	102.2	200-203	347.18			20 g/l	30	-0.66 (calculated)				S
33	13516-27-3	iminooctadine	C ₁₈ H ₄₁ N ₇	355.6					764,000 mg/l		2.71 (calculated)				S
34	76578-14-8	quizalofop-ethyl	C ₁₉ H ₁₇ ClN ₂ O ₄	372.8	92	220			0.3 mg/l	20	4.28				S
35	25319-90-8	phenothiol; MCPA-thioethyl	C ₁₁ H ₁₃ ClO ₂ S	244.7	41.5	165			2.3 mg/l	25	4.05				S
36	36335-67-8	butamifos	C ₁₃ H ₂₁ N ₂ O ₄ PS	332.4	< 25				6.19 mg/l	25	4.62				L/S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
37	2104-64-5	EPN	C ₁₄ H ₁₄ NO ₄ PS	323.3	36	215 (5mmHg)	0.126 mPa	25	3.113 mg/l	20-22	3.85	0.0131			L/S
38	40487-42-1	pendimethalin	C ₁₃ H ₁₉ N ₃ O ₄	281.3	56-57	330	3X10 ⁻⁵ mmHg	25	0.3 mg/l	20	5.18	3.75	1.19	25	S
39	2212-67-1	molinate	C ₉ H ₁₇ NOS	187.3	< 25	202 (10mmHg)	0.0055 mmhg	25	880 mg/l	20	3.21	0.156	1.5156	30	L/S
40	100-41-4	ethylbenzene	C ₈ H ₁₀	106.2	-95	136.2	10 mmHg	25.9	0.14 g/l	25	3.15	1010	0.867	20	L
41	151-56-4	ethyleneimine	C ₂ H ₅ N	43.1	-71.5	56-57	213 mmHg	25	low solubility		-0.28 (caluculated)		0.832	24	L
42	75-21-8	ethylene oxide	C ₂ H ₄ O	44.1	-111	10.7	1,314 mmHg	25	miscible		-0.3		0.882	10	G/L
43	107-21-1	ethylene glycol	C ₂ H ₆ O ₂	62.1	-13	197.6	0.06 mmHg	20	miscible		-1.36		1.1088	20	L
44	110-80-5	ethylene glycol monoethyl ether	C ₄ H ₁₀ O ₂	90.1	-70	135	5.31 mmHg	25	1,000,000 mg/l		-0.32	0.0638	0.931	20	L
45	109-86-4	ethylene glycol monomethyl ether	C ₃ H ₈ O ₂	76.1	-85.1	125	6.2 mmHg	20	miscible		-0.77		0.9647	20	L
46	107-15-3	ethylenediamine	C ₂ H ₈ N ₂	60.1	8.5	116-117	10.7 mmHg	20	soluble		0.05		0.898	25	L
47	60-00-4	ethylenediaminetetraacetic acid	C ₁₀ H ₁₆ N ₂ O ₈	292.2	240 (decomposition)				0.5 g/l	25	-3.86 (caluculated)				S
48	12122-67-7	zineb	C ₄ H ₆ N ₂ S ₄ Zn	275.7	157	decomposition	0.01 mPa	25	Ca10 mg/l		1.3	2.76 × 10 ⁻⁴	1.74	20	S
49	12427-38-2	maneb	C ₄ H ₆ MnN ₂ S ₄	265.3	decomposition		7.5X10 ⁻⁸ mmHg	20	lowlow solubility		0.62 (caluculated)		1.92	25	S
50	8018-01-7	mancozeb	(C ₄ H ₆ N ₂ S ₄) Mn _x Zn _{1-x}		198 (decomposition)		9.8X10 ⁻⁸ mmHg	25	6.2 mg/l	25	1.33	5.59 × 10 ⁻⁴			S
51	85-00-7	diquat dibromide	C ₁₂ H ₁₂ Br ₂ N ₂	344.1	335-340		< 1X10 ⁻⁵ mbar	20	700 g/l	20	-4.6	4.92 × 10 ⁻⁷	1.22-1.27	20	S
52	62-44-2	phenacetin	C ₁₀ H ₁₃ NO ₂	179.2	134-135		3.16X10 ⁻³ mmHg	25	0.76 g/l		1.58				S
53	2593-15-9	echlomezol	C ₅ H ₆ Cl ₃ N ₂ OS	247.5	20	95 (1mmHg)	1.3X10 ⁻⁴ mbar	20	50 mg/l	25	3.37	0.0644	1.503	25	L/S
54	106-89-8	epichlorohydrin	C ₃ H ₅ ClO	92.5	-48.0	116.5	10 mmHg	16.6	65.8 g/l		0.26		1.1801	20	L
55	556-52-5	2,3-epoxy-1-propanol	C ₃ H ₆ O ₂	74.1	-45	160	0.9 mmHg	25	low solubility		-0.95		1.115	20	L
56	75-56-9	propylene oxide	C ₃ H ₆ O	58.1	-112.13	34.23	538 mmHg	25	590 g/l	25	0.03	7.06	0.8304	20	L

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
57	122-60-1	2,3-epoxypropyl phenyl ether	C ₉ H ₁₀ O ₂	150.2	3.5	245	0.01 mmHg	20	2.4 g/l		1.61 (calculated)	0.0834	1.1092		L
58	111-87-5	1-octanol	C ₈ H ₁₈ O	130.2	-15	194-195	7.94X10 ⁻² mmHg	25	540 mg/l	25	2.97	2.55	0.827	20	L
59	1806-26-4	p-octylphenol	C ₁₄ H ₂₂ O	206.3	44-45										S
60		- cadmium and its compounds													
61	105-60-2	- caprolactam	C ₆ H ₁₁ NO	113.2	70	180 (50mmHg)	1.9X10 ⁻³ mmHg	25	low solubility		-0.19		1.05	25	S
62	576-26-1	2,6-xylenol	C ₈ H ₁₀ O	122.2	49	203	0.274 mmHg	25	6.05 g/l	25	2.36	0.737	1.02-1.03	15	S
63	1330-20-7	xylene	C ₈ H ₁₀	106.2		137-140	7.99 mmHg	25	130 mg/l	25	3.12 - 3.20	870	0.864	20	L
64		- silver and its water-soluble compounds													
65	107-22-2	glyoxal	C ₂ H ₂ O ₂	58.0	15	51 (776mmHg)	255 mmHg	25	1X10 ⁺³ g/l	25	-1.66 (calculated)	1.97	1.14	20	L
66	111-30-8	glutaraldehyde	C ₅ H ₈ O ₂	100.1	-14	187-189 (decomposition)	17 mmHg	20	miscible		-0.18 (calculated)		0.72		L
67	1319-77-3	cresol	C ₇ H ₈ O	108.2	11-35	191-203	0.17 mmHg	25	low solubility		1.95		1.030-1.038	25	L/S
68		- chromium and chromium() compounds													
69		- chromium() compounds													
70	79-04-9	chloroacetyl chloride	C ₂ H ₂ Cl ₂ O	112.9	-21.77	106	19 mmHg	20	decomposition		-0.22 (calculated)		1.4202	20	L
71	95-51-2	o-chloroaniline	C ₆ H ₆ ClN	127.6	-14	208.84	0.17 mmHg	25	8,160 mg/l	25	1.90	0.354	1.2114	22	L
72	106-47-8	p-chloroaniline	C ₆ H ₆ ClN	127.6	72.5	232	0.027 mmHg	26	3.9 g/l		1.83	0.118	1.169	77	S
73	108-42-9	m-chloroaniline	C ₆ H ₆ ClN	127.6	-10.4	230	0.054 mmHg	20	5,400 mg/l	20	1.88	0.170	1.2150	22	L
74	75-00-3	chloroethane	C ₂ H ₅ Cl	64.5	-138.7	12.3	1,010 mmHg	20	5.74 g/l	20	1.43	1510	0.9214	0	G
75	1912-24-9	atrazine	C ₆ H ₁₄ ClN ₅	215.7	173-175	decomposition	2.89X10 ⁻⁷ mmHg	20	28 mg/l	20	2.61	2.97 x 10 ⁻⁴	1.23	22	S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
76	51218-45-2	metolachlor	C ₁₅ H ₂₂ ClNO ₂	283.8	-62.1		1.3X10 ⁻⁵ mmHg	20	530 ppm	20	3.13	9.28 × 10 ⁻⁴	1.12	20	L
77	75-01-4	vinyl chloride	C ₂ H ₃ Cl	62.5	-153.8	13.37	2,660 mmHg	25	2.7 g/l		0.6 (calculated)	8210	0.9106	20	G
78	79622-59-6	fluazinam	C ₁₃ H ₄ Cl ₂ F ₆ N ₄ O ₄	465.1	113				1.76 mg/l	25	3.56				S
79	119446-68-3	difenoconazole	C ₁₉ H ₁₇ Cl ₂ N ₃ O ₃	406.3	76				15 mg/l	25	4.3				S
80	79-11-8	chloroacetic acid	C ₂ H ₃ ClO ₂	94.5	63 ; 55-56 ; 50	189	0.065 mmHg	25	6.14X10 ⁶ mg/l	25	0.22	1.33 × 10 ⁻⁴	1.4043	40	S
81	51218-49-6	pretilachlor	C ₁₇ H ₂₆ ClNO ₂	311.9	< 25	135			50 mg/l	20	4.08				L/S
82	15972-60-8	alachlor	C ₁₁ H ₂₀ ClNO ₂	269.8	40-41	135 (0.3mmHg)	2.2X10 ⁻⁵ mmHg	25	240 ppm	24	3.52	0.00212	1.133	25	S
83	97-00-7	1-chloro-2,4-dinitrobenzene	C ₆ H ₃ ClN ₂ O ₄	202.6	54	315			8 mg/l	15	2.17		1.7		S
84	75-68-3	HCFC-142b	C ₂ H ₃ ClF ₂	100.5	-130.8	-9.7	2.54 mmHg	25	1,400 mg/l	25		24.3	1.107	25	G
85	75-45-6	HCFC-22	CHClF ₂	86.5	-157.4	-40.7	1,044 kPa	25	0.28 g/l	25	1.08	3.22 × 10 ⁵	1.194	25	G
86	2837-89-0	HCFC-124	C ₂ HClF ₄	136.5			5,265 mmHg	25	253 mg/l	25	1.867 (calculated)	3.79 × 10 ⁵			G
87	-	HCFC-133	C ₂ H ₂ ClF ₃	118.5	-181		21,400 mmHg	25	60.1 mg/l	25	1.65	5.62 × 10 ⁶			G
88	75-72-9	CFC-13	CClF ₃	104.5	-181	-81.4	400 mmHg	-92.7			1.65				G
89	95-49-8	o-chlorotoluene	C ₇ H ₇ Cl	126.6	-35.59	158.97	3.43 mmHg	25	374 mg/l	25	3.42	155	1.0826	20	L
90	122-34-9	shimazine; CAT	C ₇ H ₁₂ ClN ₅	201.7	225		2.2X10 ⁻⁸ mmHg	25	6.2 mg/l	20	2.18	9.54 × 10 ⁻⁵	1.33	22	S
91	107-05-1	allyl chloride	C ₃ H ₅ Cl	76.5	-134.5	44-45	368 mmHg	25	0.36 %	20	-0.24	1040	0.938	20	L
92	86598-92-7	imibenconazole	C ₁₇ H ₁₃ Cl ₃ N ₄ S	411.7	90				1.7 mg/l	20	4.94				S
93	108-90-7	chlorobenzene	C ₆ H ₅ Cl	112.6	-45.2	131.7	11.8 mmHg	25	502 mg/l	25	2.89	353	1.1058	20	L
94	76-15-3	CFC-115	C ₂ ClF ₅	154.5	-106	-37.7	6,860 mmHg	25	250 mg/l	25	2.47 (calculated)	5.65 × 10 ⁵			G

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
95	67-66-3	chloroform	CHCl ₃	119.4	-63.2	61.2	197 mmHg	25	7.95 g/l	25	1.97	394	1.4835	20	L
96	74-87-3	methyl chloride	CH ₃ Cl	50.5	-97	23.7	4,300 mmHg	25	5,320 mg/l	25	0.91	5440	0.911	25	G
97	94-74-6	MCP; MCPA	C ₉ H ₉ ClO ₃	200.6	120	286.74	5.9X10 ⁻⁶ mmHg		0.825 g/l	room temp	3.25	1.91 × 10 ⁻⁴	1.56	25	S
98	96491-05-3	thenylchlor	C ₁₆ H ₁₈ Cl NO ₂ S	323.8	73	174			11 mg/l	20	3.53				S
99	1314-62-1	divanadium pentaoxide	O ₅ V ₂	181.9	690	1750 (decomposition)	Ca 0	20	8 g/l				3.357	18	S
100	-	cobalt and its compounds													
101	111-15-9	ethylene glycol monoethyl ether acetate	C ₆ H ₁₂ O ₃	132.2	-61.7	156	2 mmHg	20	229 g/l	20	0.59 (calculated)	0.154	0.975	20	L
102	108-05-4	vinyl acetate	C ₄ H ₆ O ₂	86.1	-93.2	72.7	90.2 mmHg	20	20 g/l	20	0.73	51.8	0.932	20	L
103	110-49-6	ethylene glycol monomethyl ether acetate	C ₅ H ₁₀ O ₃	118.1	-65.1	144-145	2 mmHg	20	miscible		0.1 (calculated)		1.009	19	L
104	90-02-8	salicylaldehyde	C ₇ H ₆ O ₂	122.1	-7	197	0.539 mmHg	25	1.7X10 ⁻⁴ mg/l	86	1.81		1.1674	20	L
105	102851-06-9	fluvalinate	C ₂₆ H ₂₂ ClF ₃ N ₂ O ₃	502.9											S
106	51630-58-1	fenvalerate	C ₂₅ H ₂₂ Cl NO ₃	419.9	45	300 (37mmHg)	1.1X10 ⁻⁸ mmHg	25	<1 mg/l	20	4.42	6.16 × 10 ⁻⁴	1.17	23	S
107	52315-07-8	cypermethrin	C ₂₂ H ₁₉ Cl ₂ N O ₃	416.3	60-80	> 220 (decomposition)	0.51 nPa	70	Ca.0.01 mg/l	20	6.6		1.12	22	S
108	-	inorganic cyanide compounds (except complex salts and cyanates)													
109	100-37-8	2-(diethylamino)ethanol	C ₈ H ₁₅ NO	117.2	-70	163	21 mmHg	20	954,000 mg/l	25	0.05 (calculated)	0.344	0.8921	20	L
110	28249-77-6	thiobencarb	C ₁₂ H ₁₆ ClNO S	257.8	3.3	126-129 (0.008mmHg)	1.9X10 ⁻⁴ Pa	20	Ca.30 mg/l	20	3.4	0.163	1.145-1.180	20	L

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
111	125306-83-4	cafenstrole	C ₁₆ H ₂₂ N ₄ O ₃ S	350.4	115				2.5 mg/l	20	3.21				S
112	56-23-5	tetrachloromethane	CCl ₄	153.8	-23	76.54	115 mmHg	25	800 mg/l	20	2.83	2950	1.5940	20	L
113	123-91-1	1,4-dioxane	C ₄ H ₈ O ₂	88.1	11.8	101.1	37 mmHg	25	miscible		-0.27		1.0337	20	L
114	108-91-8	cyclohexylamine	C ₆ H ₁₃ N	99.2	-17.7	134.5	10 mmHg	22	miscible		1.49		0.8647	25	L
115	95-33-0	N-cyclohexyl-2-benzothiazolesulfenamide	C ₁₃ H ₁₆ N ₂ S ₂	264.4	93-100				not-soluble				1.27		S
116	107-06-2	1,2-dichloroethane	C ₂ H ₄ Cl ₂	99.0	-35.3	83.7	87 mmHg	25	8.69 g/l	20	1.48	132	1.2351	20	L
117	75-35-4	vinylidene dichloride	C ₂ H ₂ Cl ₂	96.9	-122.5	31.7	591 mmHg	25	2.5 g/l	25	2.13	3050	1.2129	20	G/L
118	156-59-2	cis-1,2-dichloroethane	C ₂ H ₂ Cl ₂	96.9	-80.5	60.3	24 mPa	20	3.5 g/l	25	1.86	6.64 × 10 ⁻⁴	1.2837	20	L
119	156-60-5	trans-1,2-dichloroethylene	C ₂ H ₂ Cl ₂	96.9	-50	48.0-48.5	395 mmHg	30	6.3 g/l	25	2.06	810	1.2565	20	L
120	101-14-4	3,3'-dichloro-4,4'-diaminodiphenylmethane	C ₁₃ H ₁₂ Cl ₂ N ₂	267.2	110	378.9	1.3X10 ⁻³ torr	60	not-soluble		3.91		1.44		S
121	75-71-8	CFC-12	CCl ₂ F ₂	120.9	-158	-29.8	84.8 psia	70°F	0.28 g/l		2.16		1.486	-29.8	G
122	23950-58-5	propylamide	C ₁₂ H ₁₁ Cl ₂ NO	256.1	155-156		8.5X10 ⁻⁵ mmHg	25	15 mg/l	25	3.43	0.193			S
123	-	CFC-114	C ₂ Cl ₂ F ₄	171.0											G
124	306-83-2	HCFC-123	C ₂ HCl ₂ F ₃	152.9		28.7	706 mmHg	25	1,488 mg/l	25	2.307 (calculated)	9670			G
125	106917-52-6	flusulfamide	C ₁₃ H ₇ Cl ₂ F ₃ N ₂ O ₄ S	415.2	170				2.9 mg/l	25	2.8				S
126	82692-44-2	benzofenap	C ₂₂ H ₂₀ Cl ₂ N ₂ O ₃	431.3	133.3				0.13 mg/l	25	4.69				S
127	3209-22-1	1,2-dichloro-3-nitrobenzene	C ₆ H ₃ Cl ₂ NO ₂	192.0	61-62	257-258	0.00165 mmHg	25	62.4 mg/l	20	3.05	0.677	1.721	14	S
128	89-61-2	1,4-dichloro-2-nitrobenzene	C ₆ H ₃ Cl ₂ NO ₂	192.0	56	267	< 0.1 mmHg	25	14 mg/l	25	3.09	183			S
129	330-54-1	diuron; DCMU	C ₉ H ₁₀ Cl ₂ N ₂ O	233.1	158-159	180-190 (decomposition)	8.25X10 ⁻⁹ mmHg	25	42 ppm	25	2.68	6.10 × 10 ⁻⁶			S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
130	330-55-2	linuron	C ₉ H ₁₀ Cl ₂ N ₂ O ₂	249.1	93-94		2.0 mPa	24	81 mg/l	25	3.2	0.00615			S
131	94-75-7	2,4-D; 2,4-PA	C ₈ H ₆ Cl ₂ O ₃	221.0	138	160 (0.4mmHg)	8.25X10 ⁻⁵ mmHg	25	540 ppm	20	2.81	0.00450	1.416	25	S
132	1717-00-6	HCFC-141b	C ₂ H ₃ Cl ₂ F	117.0	-103.5	32			2,637 mg/l	25	2.041				L
133	75-43-4	HCFC-21	CHCl ₂ F	102.9	-135	8.9	1360 mmHg				1.55		1.405	9	L
134	96-23-1	1,3-dichloro-2-propanol	C ₃ H ₆ Cl ₂ O	129.0	-4	174.3	0.75 mmHg	25			0.78 (calculated)		1.3506	17	L
135	78-87-5	1,2-dichloropropane	C ₃ H ₆ Cl ₂	113.0	-100.4	96.4	50 mmHg	25	0.26 %	20	2.28	290	1.159	25	L
136	709-98-8	propanil; DCPA	C ₉ H ₉ Cl ₂ NO	218.1	85-89		12 mPa	60	225 ppm	room temp	3.07		1.054	25	S
137	542-75-6	D-D	C ₃ H ₄ Cl ₂	111.0	< -50	108	3.7 Pa	20	0.15 %		1.36	0.274	1.22	25	L
138	91-94-1	3,3'-dichlorobenzidine	C ₁₂ H ₁₀ Cl ₂ N ₂	253.1	132-133	402			0.7 g/l	15	3.02				S
139	95-50-1	o-dichlorobenzene	C ₆ H ₄ Cl ₂	147.0	-17	180.1	1.47 mmHg	25	156 mg/l	25	3.43	185	1.3059	20	L
140	106-46-7	p-dichlorobenzene	C ₆ H ₄ Cl ₂	147.0	53.1	174	1.74 mmHg	25	76 mg/l	25	3.44	449	1.2475	20	S
141	71561-11-0	pyrazoxyfen	C ₂₀ H ₁₆ Cl ₂ N ₂ O ₃	403.3	111.5				900 mg/l	20	3.69				S
142	58011-68-0	pyrazolynate	C ₁₉ H ₁₆ Cl ₂ N ₂ O ₄ S	439.3	118				0.056 mg/l	25	3.9				S
143	1194-65-6	dichlobenil; DBN	C ₇ H ₃ Cl ₂ N	172.0	144-145	270	6.6X10 ⁻⁴ mmHg	20	21.2 mg/l	20	2.74	0.714			S
144	-	HCFC-225	C ₃ HCl ₂ F ₅	203.0											G
145	75-09-2	methylene dichloride	CH ₂ Cl ₂	84.9	-97	39.75	400 mmHg	24.1	20 g/l	20	1.25	226	1.3255	20	L
146	3347-22-6	dithianon	C ₁₁ H ₄ N ₂ O ₂ S ₂	296.3	220		< 6.7X10 ⁻⁷ mmHg	20	not-soluble		2.84				S
147	50512-35-1	isoprothiolane	C ₁₂ H ₁₈ O ₄ S ₂	290.4	54	168			54 mg/l	25	2.88				S
148	17109-49-8	edifenphos; EDDP	C ₁₄ H ₁₅ O ₂ PS ₂	310.4	< 25	154			56 mg/l	20	3.48				L
149	640-15-3	thiometon	C ₈ H ₁₅ O ₂ PS ₃	246.3	< 25	110 (0.1mmHg)			200 mg/l	25	3.15		1.209	20	L
150	35400-43-2	sulprofos	C ₁₂ H ₁₉ O ₂ S ₃	322.4	15	155-158			0.31 mg/l	20	5.48				L
151	298-04-4	ethylthiometon; disulfoton	C ₈ H ₁₉ O ₂ PS ₃	274.4	-25	132-133 (1.5mmHg)	5.4X10 ⁻⁵ mmHg	20	12 mg/l	20	4.02	0.165	1.144	20	L
152	2310-17-0	phosalone	C ₁₂ H ₁₅ Cl	367.8	47.5-48		< 0.5X10 ⁻⁶ mmHg	24	10 mg/l		4.38	0.00245			S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
			NO ₄ PS ₂												
153	34643-46-4	prothiofos	C ₁₁ H ₁₅ Cl ₂ O ₂ PS ₂	345.2	< -25	126.5			0.07 mg/l	20	5.67				L
154	950-37-8	methidathion; DMTP	C ₆ H ₁₁ N ₂ O ₄ P S ₃	302.3	39-40		0.186 mmHg	20	250 mg/l	20	2.2	30.0	1.495	20	S
155	121-75-5	malathion; malathion	C ₁₀ H ₁₉ O ₆ PS ₂	330.4	2.9	156-157 (0.7mmHg)	1.78X10 ⁻⁴ mmHg	25	145 ppm	20	2.36	0.0541	1.23	25	L
156	60-51-5	dimethoate	C ₈ H ₁₂ NO ₃ P S ₂	229.3	49	107 (0.05mmHg)	1.1 mmHg	25	25 g/l	21	0.50 &0.78	1.34	1.277	65	S
157	25321-14-6	dinitrotoluene	C ₇ H ₆ N ₂ O ₄	182.2	70	300	1.0 mmHg	20	not-soluble		2.18 (caluculated)				S
158	51-28-5	2,4-dinitrophenol	C ₆ H ₄ N ₂ O ₅	184.1	112-114	(sublimation)	3.9X10 ⁻⁴ mmHg	20	2,790 mg/l	20	1.67	0.00343	1.683	24	S
159	122-39-4	diphenylamine	C ₁₂ H ₁₁ N	169.2	53-54	302	1 mmHg	108	0.03 g/l	25	3.5		1.16		S
160	102-81-8	2-(di-n-butylamino)ethanol	C ₁₀ H ₂₃ NO	173.3	75	225-227									L
161	55285-14-8	carbosulfan	C ₂₀ H ₃₂ N ₂ O ₃ S	380.5	< 25				0.3 mg/l	25	5.57 (caluculated)				L
162	-	halone-2402	C ₂ Br ₂ F ₄	259.8											
163	87-62-7	2,6-dimethylaniline	C ₈ H ₁₁ N	121.2	11.2	216	0.125 mmHg	25	8,240 ppm	25	1.84	0.245	0.9842	20	L
164	95-64-7	3,4-dimethylaniline	C ₈ H ₁₁ N	121.2	51	228			3,800 mg/l	22	1.84		1.076	18	S
165	62850-32-2	phenothiocarb	C ₁₃ H ₁₉ NO ₂ S	253.4	40.5	155			30 mg/l	20	3.28				S
166	1643-20-5	N,N-dimethyldodecylamine N-oxide	C ₁₄ H ₃₁ NO	229.4	132-133				190,000 mg/l	25	4.67 (caluculated)				S
167	52-68-6	trichlorfon; DEP	C ₄ H ₆ Cl ₃ O ₄ P	257.4	83-84	100 (1mmHg)	7.8X10 ⁻⁶ mmHg	20	154 g/l	25	0.51	1.74 × 10 ⁻⁶	1.73	20	S
168	4685-14-7	1,1'-dimethyl-4,4'-bipyridinium salts (except paraquat dichloride)				175-180 (decomposition)	Ca 0	20	low solubility		-4.22		1.24	20	S
169	1910-42-5	paraquat; paraquat dichloride	C ₁₂ H ₁₄ Cl ₂ N ₂	257.2	300				700 g/l	20	-2.71 (caluculated)				S
170	85785-20-2	esprocarb	C ₁₅ H ₂₃ NOS	265.4	< 25	135			4.9 mg/l	20	4.6				L
171	119-93-7	o-tolidine	C ₁₄ H ₁₆ N ₂	212.3	129-131	300			1.3 mg/ml		2.34				S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
172	68-12-2	N,N-dimethylformamide	C ₃ H ₇ NO	73.1	-61	153	3.7 mmHg	25	miscible		-1.01		0.9445	25	L
173	2597-03-7	phenthoate; PAP	C ₁₂ H ₁₇ O ₄ PS ₂	320.4	17-18	70-80 (2~5 × 10 ⁻⁵ mmHg)	2.6X10 ⁻⁶ mmHg	25	11 mg/l	24	3.69	0.0101	1.226	20	L/S
174	3861-47-0	ioxynil octanoate	C ₁₅ H ₁₇ I ₂ NO ₂	497.1	59.5						6.42 (caluculated)				S
175		- mercury and its compounds													
176		- organic tin compounds													
177	100-42-5	styrene	C ₈ H ₈	104.2	-31	145	6.40 mmHg	25	310 mg/l	25	2.95	287	0.906	20	L
178		- selenium and its compounds													
179		- dioxins													
180	533-74-4	dazomet	C ₅ H ₁₀ N ₂ S ₂	162.3	106-107		370 μ Pa	20	0.12 %	25	1.4	5.00 × 10 ⁻⁵	1.3	20	S
181	62-56-6	thiourea	CH ₄ N ₂ S	76.1	176-178	decomposition	7.5X10 ⁻⁸ mmHg	20	9 g/l	25	-1.02	8.45 × 10 ⁻⁸	1.405		S
182	108-98-5	thiophenol	C ₆ H ₆ S	110.2	-14.8	168.3	2 mmHg	25	836 mg/l	25	2.52	35.1	1.0728	25	L
183	77458-01-6	pyraclofos	C ₁₄ H ₁₈ ClN ₂ O ₃ PS	360.8	< 25	164			33 mg/l	20	3.77				L
184	2636-26-2	cyanophos; CYAP	C ₉ H ₁₀ NO ₃ P S	243.2	14-15	119-120 (0.09mmHg) (decomposition)	105 mPa	20	46 mg/l	30	2.71	0.555	1.255-1.265	25	L/S
185	333-41-5	diazinon	C ₁₂ H ₂₁ N ₂ O ₃ PS	304.4	< 25	83-84 (0.002mmHg)	9.01X10 ⁻⁵ mmHg	25	0.004 %	20	3.81	0.0914	1.116-1.118	20	L/S
186	119-12-0	pyridaphenthion	C ₁₄ H ₁₇ N ₂ O ₄ PS	340.3	55				100 mg/l	20	3.2				S
187	13593-03-8	quinalphos	C ₁₂ H ₁₅ N ₂ O ₃ PS	298.3	31.5	142			22 mg/l	24	4.44				S
188	2921-88-2	chlorpyrifos	C ₉ H ₁₁ Cl ₃ NO ₃ PS	350.6	41-42	160 (decomposition)	2.02X10 ⁻⁵ mmHg	25	0.4 mg/l	23	5.27	2.36	1.398	43.5	S
189	18854-01-8	isoxathion	C ₁₃ H ₁₆ NO ₄ P S	313.3	< 25	160			1.9 mg/l	25	3.73				L
190	97-17-6	dichlofenthion; ECP	C ₁₀ H ₁₃ Cl ₂	315.2		164-169 (0.1mmHg)			0.245 mg/l	25	5.14		1.3	20	S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
			O ₃ PS												
191	2275-23-2	vamidothion	C ₈ H ₁₈ NO ₄ PS ₂	287.3	46-48		Negligible	room temp	4 kg/l		0.16 (calculated)				S
192	122-14-5	fenitrothion; MEP	C ₉ H ₁₂ NO ₅ PS	277.2	3.4	118 (0.05mmHg)	18X10 ⁻⁶ mmHg	20	30 mg/l	20	3.38	0.0222	1.32-1.34	25	L
193	55-38-9	fenthion; MPP	C ₁₀ H ₁₅ O ₃ PS ₂	278.3	7	87 (0.01mmHg)	4 mPa	20	2 mg/l	20	4.091	0.557	1.25	20	L
194	5598-13-0	chlorpyrifos-methyl	C ₇ H ₇ Cl ₃ NO ₃ PS	322.5	43				4.76 mg/l	20	4.31				S
195	41198-08-7	profenofos	C ₁₁ H ₁₅ BrClO ₃ PS	373.6	< 25	110			28 mg/l	25	4.68				L
196	26087-47-8	iprobefos; IBP	C ₁₃ H ₂₁ O ₃ PS	288.4	< 25	126			400 mg/l	20	3.34				L
197	1163-19-5	decabromodiphenyl ether	C ₁₂ Br ₁₀ O	959.2	295-305	425	5 mmHg	306	20-30 ppb		5.24		3.0		S
198	100-97-0	hexamethylenetetramine	C ₆ H ₁₂ N ₄	140.2	280		< 4X10 ⁻³ mmHg	25	448.6 g/l		-4.15 (calculated)	1.67 × 10 ⁻⁴	1.331	-5	S
199	1897-45-6	chlorothalonil; TPN	C ₈ Cl ₄ N ₂	265.9	250-251	350	< 0.01 mmHg	40	0.6 mg/kg	25	3.05		1.7	25	S
200	127-18-4	tetrachloroethylene	C ₂ Cl ₄	165.8	-19	121	18.47 mmHg	20	0.15 g/l	25	3.40	2720	1.6227	20	L
201	-	CFC-112	C ₂ Cl ₄ F ₂	204.0											
202	11070-44-3	tetrahydromethylphthalic anhydride	C ₈ H ₁₀ O ₃	166.2											
203	116-14-3	tetrafluoroethylene	C ₂ F ₄	100.0	-142.5	-75.9	2.45X10 ⁻⁴ mmHg		1.597 mg/l X10 ⁻²		1.21 (calculated)	0.0205	1.519	-76	G
204	137-26-8	thiram	C ₈ H ₁₂ N ₂ S ₄	240.4	155-156	129 (20mmHg)	1.725X10 ⁻⁵ mmHg	25	30 mg/l		1.73	0.0184	1.29	20	S
205	100-21-0	terephthalic acid	C ₈ H ₆ O ₄	166.1	> 300		9.20X10 ⁻⁶ mmHg	25	15 mg/l	20	2	0.0136	1.51		S
206	120-61-6	dimethyl terephthalate	C ₁₀ H ₁₀ O ₄	194.2	140	288	1.06X10 ⁻² mmHg	25	19 mg/l	25	2.25	14.4			S
207	-	copper salts (water-soluble, except complex salts)													
208	75-87-6	trichloroacetaldehyde	C ₂ HCl ₃ O	147.4	-57.5	97.8	35 mmHg	20	low solubility		0.99		1.5121	20	L
209	71-55-6	1,1,1-trichloroethane	C ₂ H ₃ Cl ₃	133.4	-30.4	74.0	16.5 Kpa	25	4.4 g/l	20	2.49	500	1.3376	20	L

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
210	79-00-5	1,1,2-trichloroethane	C ₂ H ₃ Cl ₃	133.4	-36.6	113.8	3.10 Kpa	25	4.5 g/l	20	2.17	91.9	1.4416	20	L
211	79-01-6	trichloroethylene	C ₂ HCl ₃	131.4	-73	87	57.8 mmHg	20	1,100 mg/l	25	2.61	920	1.4649	20	L
212	108-77-0	2,4,6-trichloro-1,3,5-triazine	C ₃ Cl ₃ N ₃	184.4	146	192	2 mmHg	70	401 mg/l	25	1.73 (calculated)		1.32		S
213	-	CFC-113	C ₂ Cl ₃ F ₃	187.5											
214	76-06-2	chloropicrin	CCl ₃ NO ₂	164.4	-64	112 (757mmHg)	24 mmHg	25	1,621 mg/l	25	2.09	324	1.6558	20	L
215	115-32-2	kelthane; dicofol	C ₁₄ H ₉ Cl ₅ O	370.5	77-78	180 (0.1mmHg)	3.98X10 ⁻⁷ mmHg		1.2 mg/l	20	4.28	0.0164	1.13	20	S
216	55335-06-3	tricypr	C ₇ H ₄ Cl ₃ NO ₃	256.5	149				440 mg/l	25	2.53 (calculated)				S
217	75-69-4	CFC-11	CCl ₃ F	137.4	-111	23.7			1 g/l		2.53		1.494	17.2	L
218	2451-62-9	1,3,5-tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	C ₁₂ H ₁₈ N ₃ O ₆	297.3	95.3		Ca 0								S
219	118-96-7	2,4,6-trinitrotoluene	C ₇ H ₅ N ₃ O ₆	227.1	80.1	240 (explosion)	1.99X10 ⁻⁴ mmHg	20	Ca 0.01 %	25	1.6	0.0602	1.654	20	S
220	1582-09-8	trifluralin	C ₁₃ H ₁₆ F ₃ N ₃ O ₄	335.3	46-47	139-140 (4.2mmHg)	1.1X10 ⁻⁴ mmHg	25	0.024 g/l	27	5.07	0.205			S
221	118-79-6	2,4,6-tribromophenol	C ₆ H ₃ Br ₃ O	330.8	94-96	244			70 mg/l	15	4.13		2.55		S
222	75-25-2	bromoform	CHBr ₃	252.7	8.3	149.5 (15mmHg)	40 mmHg	63.6	3,100 mg/l	25	2.4		2.8899	15	L
223	3452-97-9	3,5,5-trimethyl-1-hexanol	C ₉ H ₂₀ O	144.3		194			572 mg/l	25	3.11 (calculated)				L
224	108-67-8	1,3,5-trimethylbenzene	C ₉ H ₁₂	120.2	-44.8	164.7	2.48 mmHg	25	48.2 mg/l	25	3.42	824	0.8637	20	L
225	95-53-4	o-toluidine	C ₇ H ₉ N	107.2	-14.7	200.2	0.32 torr		16.6 g/l		1.32	0.275	1.008	20	L
226	106-49-0	p-toluidine	C ₇ H ₉ N	107.2	44-45	200.5	0.34 torr		6.64 g/l		1.39	0.731	1.046	20	S
227	108-88-3	toluene	C ₇ H ₈	92.1	-95	111	36.7 mmHg	30	0.54-0.58 g/l	25	2.69	805	0.8661	20	L
228	95-80-7	2,4-toluenediamine	C ₇ H ₁₀ N ₂	122.2	99	292	5.52 mmHg X10 ⁻⁵		7.74 g/l		0.337	1.16 x 10 ⁻⁴			S
229	52570-16-8	naproanilide	C ₁₉ H ₁₇ NO ₂	291.3	128				0.75 mg/l	27	4.42 (calculated)				S
230	-	lead and its compounds													
231	7440-02-0	nickel	Ni	58.7	1455	2730	1 mmHg	1810	not-soluble		-0.57 (calculated)		8.9		S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
232	-	nickel compounds													
233	139-13-9	nitrilotriacetic acid	C ₆ H ₉ NO ₆	191.1	242 (decomposition)				59 g/l	25	-3.81 (calculated)				S
234	100-01-6	p-nitroaniline	C ₆ H ₆ N ₂ O ₂	138.1	146	332	4X10 ⁻³ mmHg	25	724 mg/l	25	1.39	0.102	1.424	20	S
235	628-96-6	nitroglycol	C ₂ H ₄ N ₂ O ₆	152.1	-22.3	197-200	7.2X10 ⁻² mmHg	25	5.2 g/l	25	1.16	0.281	1.4918	20	L
236	55-63-0	nitroglycerin	C ₃ H ₅ N ₃ O ₉	227.1	13	260	0.00025 mmHg	20	1,800 mg/l	25	1.62	0.00420	1.5931	20	L
237	100-00-5	p-nitrochlorobenzene	C ₆ H ₄ ClNO ₂	157.6	82-84	242	0.094 mmHg	20	453 mg/l	20	2.39	4.36	1.520		S
238	86-30-6	N-nitrosodiphenylamine	C ₁₂ H ₁₀ N ₂ O	198.2	66.5				35.1 mg/l	25	3.13		1.23		S
239	100-02-7	p-nitrophenol	C ₆ H ₅ NO ₃	139.1	113-114	279 (decomposition)	0.005 mmHg	20	16,000 mg/l	25	1.91	0.00579	1.270	20	S
240	98-95-3	nitrobenzene	C ₆ H ₅ NO ₂	123.1	5.7	210.8	0.245 mmHg	25	1.797 g/l	25	1.85	2.24	1.2037	20	S/L
241	75-15-0	carbon disulfide	CS ₂	76.1	-111.5	46	359 mmHg	25	2.86 g/l	25	1.94	1270	1.2632	20	L
242	25154-52-3	nonylphenol	C ₁₅ H ₂₄ O	220.4	-10	293-297	2.4X10 ⁻⁵ mmHg	25	6.35 mg/l	25	5.99 (calculated)	0.111	0.95	20	L
243	-	barium and its water-soluble compounds													
244	88-89-1	picric acid	C ₆ H ₃ N ₃ O ₇	229.1	122-123	> 300 (explosion)	7.5X10 ⁻⁷ mmHg	25	12,700 mg/l	25	1.33	1.80 x 10 ⁻⁶	1.763		S
245	1014-70-6	simetryn	C ₈ H ₁₅ N ₅ S	213.3	82.5				450 mg/l	22	2.8				S
246	10380-28-6	oxine-copper	C ₁₈ H ₁₂ CuN ₂ O ₂	351.9	> 200		Ca 0	25	0.07 mg/l	25	2.46				S
247	74115-24-5	clofentezine	C ₁₄ H ₈ Cl ₂ N ₄	303.2	182				1 mg/l	25	3.1				S
248	563-12-2	ethion	C ₉ H ₂₂ O ₄ P ₂ S ₄	384.5	-12- -13	150 (decomposition)	1.5X10 ⁻⁶ mmHg	25	0.6 mg/l	25	5.073	0.128	1.22	20	L
249	13730-42-5	ziram	C ₆ H ₁₂ N ₂ S ₄ Zn	305.8	250(crystal) 148(dust)				not-soluble		1.23		1.66	25	S
251	61789-80-8	bis(hydrogenated tallow)dimethylammonium chloride													

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
252	-	arsenic and its inorganic compounds													
253	302-01-2	hydrazine	N ₂ H ₄	32.0	2.0	113.5	14.4 mmHg	25	1X10 ⁺⁶ mg/l		-2.07	0.0614	1.011	15	L
254	123-31-9	hydroquinone	C ₆ H ₆ O ₂	110.1	170-171	285-287	6.7X10 ⁻⁴ mmHg	25	73.33 mg/l	25	0.59	0.134	1.332		S
255	100-40-3	4-vinyl-1-cyclohexene	C ₈ H ₁₂	108.2	-108.89	128.9	25.8 mmHg	38	not-soluble		3.93		0.8299	20	L
256	100-69-6	2-vinylpyridine	C ₇ H ₇ N	105.1		159-160	10 mmHg	44.5	25 g/l	20	1.39		0.9985	20	S
257	55179-31-2	bitertanol	C ₂₀ H ₂₃ N ₃ O ₂	337.4	125-129				5 mg/l	20	4.16				S
258	110-85-0	piperazine	C ₄ H ₁₀ N ₂	86.1	106	145-146	0.16 mmHg	20	41 %	20	-1.17	0.00448	1.1		S
259	110-86-1	pyridine	C ₅ H ₅ N	79.1	-41.6	115-116	20 mmHg	25	miscible		0.62 - 0.78		0.98272	20	L
260	120-80-9	pyrocatechol	C ₆ H ₆ O ₂	110.1	105	245.5 (sublimation)	3X10 ⁻² mmHg	20	miscible		0.88		1.344		S
261	96-09-3	phenyloxirane	C ₈ H ₈ O	120.2	-35.6	194.1	0.3 mmHg	20	0.28 %	25	1.61	1.72	1.0523	16	L
262	95-54-5	o-phenylenediamine	C ₆ H ₈ N ₂	108.1	103-104	256-258	0.01 mmHg	25	4.07X10 ⁴ mg/l	35	0.15				S
263	106-50-3	p-phenylenediamine	C ₆ H ₈ N ₂	108.1	145-147	267	< 1 mmHg	21	38 g/l	24	-0.25	0.379			S
264	108-45-2	m-phenylenediamine	C ₆ H ₈ N ₂	108.1	62-63	284-287	1 mmHg	99.8	351 g/l	25	-0.33		1.0096	58	S
265	156-43-4	p-phenetidine	C ₈ H ₁₁ NO	137.2	4	254			7510 mg/l	25	1.24		1.07		L
266	108-95-2	phenol	C ₆ H ₆ O	94.1	40.9	182	0.3513 mmHg	25	82,800 mg/l	25	1.46	0.0532	1.0545	45	S
267	52645-53-1	permethrin	C ₂₁ H ₂₀ Cl ₂ O ₃	391.3	34-35	ca 200 (0.01mmHg)	0.045 mPa	25	0.2 mg/l	30	3.48	0.0880	1.19 - 1.27	20	S
268	106-99-0	1,3-butadiene	C ₄ H ₆	54.1	-108.91	-4.5	910 mmHg	20	735 mg/l	20	1.99	8930	0.6211	20	G
269	117-84-0	di-n-octyl phthalate	C ₂₄ H ₃₈ O ₄	390.6	-25	220 (4torr)	< 0.2 mmHg	150	3 mg/l	25	5.22		0.978	20	L
270	84-74-2	di-n-butyl phthalate	C ₁₆ H ₂₂ O ₄	278.3	-35	340	9.7X10 ⁻³ Pa	20	11.2 mg/l	20	4.9	0.241	1.0465	20	L
271	3648-21-3	di-n-heptyl phthalate	C ₂₂ H ₃₄ O ₄	362.5		360			0.01 %		7.56 (caluculated)				L
272	117-81-7	bis(2-ethylhexyl) phthalate	C ₂₄ H ₃₈ O ₄	390.6	-55	230 (5mmHg)	1.32 mmHg	200	0.285 mg/l	24	4.89		0.9861	20	L
273	85-68-7	n-butyl benzyl phthalate	C ₁₉ H ₂₀ O ₄	312.4	-35	370	8.6X10 ⁻⁶ mmHg	20	0.71 mg/l		4.77	0.504	1.113 -1.121	25	L
274	69327-76-0	buprofezin	C ₁₆ H ₂₃ N ₃ OS	305.4	105				0.9 mg/l	20	4.3				S
275	112410-23-8	tebufenozide	C ₂₂ H ₂₈ N ₂ O ₂	352.5	191				0.83 mg/l	25	4.25				S
276	17804-35-2	benomyl	C ₁₄ H ₁₈ N ₄ O ₃	290.3	decomposition	decomposition	< 1x10 ⁻⁵ mbar	20	0.004 g/l	20	2.12	0.0726			S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
277	122008-85-9	cyhalofop-butyl	C ₂₀ H ₂₀ FNO ₄	357.4											S
278	134098-61-6	fenpyroximate	C ₂₄ H ₂₇ N ₃ O ₄	421.5											S
279	2312-35-8	propargite; BPPS	C ₁₉ H ₂₆ O ₄ S	350.5	< 25				0.5 mg/l	25	5				L
280	96489-71-3	pyridaben	C ₁₉ H ₂₅ ClN ₂ OS	364.9	111.5				0.012 mg/l	20	6.37				S
281	119168-77-3	tebufenpyrad	C ₁₈ H ₂₄ ClN ₃ O	333.9	61.5				2.6 mg/l	25	4.61				S
282	95-31-8	N-(tert-butyl)-2-benzothiazolesulfenamide	C ₁₁ H ₁₄ N ₂ S ₂	238.4	104								1.29	25	S
283		- hydrogen fluoride and its water-soluble salts													
284	12071-83-9	propineb	C ₉ H ₉ N ₂ S ₄ Zn	289.8											
285	353-59-3	halone-1211	CBrClF ₂	165.4	-159.5	-3.7	2.07X10 ⁻³ mmHg	25					1.85	liquid	G
286	75-63-8	halone-1301	CBrF ₃	148.9	-172.0	-57.8	1.22X10 ⁻⁴ mmHg	25	0.03 %		1.86	8.07 × 10 ⁵	1.58	20(liquid)	G
287	75-26-3	2-bromopropane	C ₃ H ₇ Br	123.0	-89	58.5-60.5			3,180 mg/l	20	2.14		1.31	20	G
288	74-83-9	methyl bromide	CH ₃ Br	94.9	-93.66	3.55	1620 mmHg	25	13.4 g/kg	25	1.19	1530	1.73	0	G
289	13356-08-6	fenbutatin oxide	C ₆₀ H ₇₈ OSn ₂	1,053.0	138-139	235-240 (0.05mmHg)			0.005 mg/l	23	5.2				S
290	115-28-6	chlorendic acid	C ₉ H ₄ Cl ₆ O ₄	388.8	239-242				3,500 mg/l	25	3.14 (calculated)				S
291	115-29-7	endosulfan	C ₉ H ₆ Cl ₆ O ₃ S	406.9	106	106 (0.7mmHg) decomposition	6.2X10 ⁻⁶ mmHg	20	0.53 mg/l (alpha), 0.28 (beta)	25	3.83	0.634	1.745	20	S
292	124-09-4	hexamethylenediamine	C ₆ H ₁₆ N ₂	116.2	42	205			2,460,000 mg/l	5	0.35 (calculated)		0.799	60	S
293	822-06-0	hexamethylene diisocyanate	C ₈ H ₁₂ N ₂ O ₂	168.2	-67	82-85 (0.1mmHg)	0.05 mmHg	25	117 mg/l	25	3.2 (calculated)	9.58	1.04	25	L
294		- beryllium and its compounds													

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
295	98-07-7	benzylidene trichloride	C ₇ H ₅ Cl ₃	195.5	-5	219-223	0.4137 mmHg	25	53 mg/l	5	2.92		1.3756	20	L
296	98-87-3	benzylidene dichloride	C ₇ H ₆ Cl ₂	161.0	-16.4	82 (10mmHg)	1 mmHg	35.4	not-soluble		2.97 (calculated)		1.26		L
297	100-44-7	benzyl chloride	C ₇ H ₇ Cl	126.6	-43- -48	179	1 mmHg	22	493 ppm	20	2.3	34.2	1.1	20	L
298	100-52-7	benzaldehyde	C ₇ H ₆ O	106.1	-26	178-179	1 mmHg	26	3 g/l	25	1.48	4.72	1.050	15	L
299	71-43-2	benzene	C ₆ H ₆	78.1	5.5	80.1	100 mmHg	26.1	1.8 g/l	25	2.13	578	0.8787	15	L
300	552-30-7	1,2,4-benzenetricarboxylic 1,2-anhydride	C ₉ H ₄ O ₅	192.1	161-163.5	390	1.16X10 ⁻⁹ mmHg	25	low solubility		1.95 (calculated)		1.6		S
301	73250-68-7	mefenacet	C ₁₆ H ₁₄ N ₂ O ₂ S	298.4	134.8				4 mg/l	20	3.23				S
302	82-68-8	quintozene; PCNB	C ₆ Cl ₅ NO ₂	295.3	144	328	5X10 ⁻⁵ mmHg	20	0.55 mg/l	25	4.22	3.58	1.718	25	S
303	87-86-5	pentachlorophenol	C ₆ HCl ₅ O	266.3	191	309-310 decomposition	1.1X10 ⁻⁴ mmHg	25	14 mg/l	26.7	5.12	0.279	1.978	22	S
304	-	boron and its compounds													
305	75-44-5	phosgene	CCl ₂ O	98.9	-118	8.2	1215 mmHg	20	475,000 mg/l	25	-0.71 (calculated)	33.7	1.381	20	G
306	1336-36-3	PCBs			340-375				0.7 mg/l	25	7.1		1.44	30	L
307	-	poly(oxyethylene) alkyl ether (alkyl C=12-15)	(C ₂ H ₄ O) _m C _n H _{2n+2} O												
308	9036-19-5	poly(oxyethylene) octylphenyl ether	(C ₂ H ₄ O) _m C ₁₄ H ₂₂ O												
309	9016-45-9	poly(oxyethylene) nonylphenyl ether	(C ₂ H ₄ O) _m C ₁₃ H ₂₄ O												
310	50-00-0	formaldehyde	CH ₂ O	30.0	-92	-19.5	10 mmHg	-88	550 g/l		0.35		1.067	AIR=1	G
311	-	manganese and its compounds													
312	85-44-9	phthalic anhydride	C ₈ H ₄ O ₃	148.1	130.8	295	1 mmHg	96.5	6 g/l		1.6		1.53	20	S
313	108-31-6	maleic anhydride	C ₄ H ₂ O ₃	98.1	52.8	202.0	5X10 ⁻⁵ mmHg	20	400 g/l		1.62 (calculated)	1.63 x 10 ⁻⁶	1.48		S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
											ated)				
314	79-41-4	methacrylic acid	C ₄ H ₆ O ₂	86.1	16	163	0.975 mmHg	25	89,000 mg/l	25	0.93	0.126	1.0153	20	L
315	688-84-6	2-ethylhexyl methacrylate	C ₁₂ H ₂₂ O ₂	198.3		113	< 1 mmHg	20	5.92 mg/l	25	4.54	4470			L
316	106-91-2	2,3-epoxypropyl methacrylate	C ₇ H ₁₀ O ₃	142.2	79	189			16,500 mg/l	25	0.81 (calculated)		1.07	25	L
317	105-16-8	2-(diethylamino)ethyl methacrylate	C ₁₀ H ₁₉ NO ₂	185.3		80 (10mmHg)									
318	2867-47-2	2-(dimethylamino)ethyl methacrylate	C ₈ H ₁₅ NO ₂	157.2	Ca -30	186-188	< 1 mmHg	25	low solubility		0.97 (calculated)		0.933	25	L
319	97-88-1	n-butyl methacrylate	C ₈ H ₁₄ O ₂	142.2	-75	160-163	4.9 mmHg	20	not-soluble		2.88		0.8936	20	L
320	80-62-6	methyl methacrylate	C ₅ H ₈ O ₂	100.1	-48	100	38.5 mmHg	20	1.59X10 ⁻⁴ mg/l	25	1.38	32.3	0.944	20	L
321	126-98-7	methacrylonitrile	C ₄ H ₅ N	67.1	-35.8	90.3	71.2 mmHg	25	2.57 WT-%	20	0.68	24.8	0.8001	20	L
322	89269-64-7	ferimzone	C ₁₅ H ₁₈ N ₄	254.3	175.5				162 mg/l	30	2.98				S
323	100-61-8	N-methylaniline	C ₇ H ₉ N	107.2	-57	196	0.453 mmHg	25	low solubility		1.66		0.989	20	L
324	556-61-6	methyl isothiocyanate	C ₂ H ₃ NS	73.1	35	119 (75mmHg)	19 mmHg	20	7.6 g/l	20	0.94	24.4	1.0691	37	L/S
325	2631-40-5	isoprocarb ; MIPC	C ₁₁ H ₁₅ NO ₂	193.2	72-74	128-129			400 mg/l	25	2.31				S
326	114-26-1	propoxur; PHC	C ₁₁ H ₁₅ NO ₃	209.2	91.5	decomposition	3X10 ⁻⁶ mmHg	20	0.2 %	20	1.52	4.18 x 10 ⁻⁵			S
327	1563-66-2	carbofuran	C ₁₂ H ₁₅ NO ₃	221.3	153-154		3.4X10 ⁻⁶ mmHg	25	700 ppm	25	2.32	1.43 x 10 ⁻⁴	1.18	20	S
328	2655-14-3	XMC	C ₁₀ H ₁₃ NO ₂	179.2	99				470 mg/l	20	2.23		0.54		S
329	63-25-2	carbaryl; NAC	C ₁₂ H ₁₁ NO ₂	201.2	145	decomposition	4.1X10 ⁻² mPa	25	120 mg/l	30	2.36	6.88 x 10 ⁻⁵	1.232	20	S
330	3766-81-2	fenobucarb; BPMC	C ₁₂ H ₁₇ NO ₂	207.3	31.5	112.5			420 mg/l	20	2.78				L/S
331	100784-20-1	halosulfuron-methyl	C ₁₃ H ₁₅ ClN ₆ O ₇ S	434.8	176				15 mg/l	20	-0.02				S
332	33089-61-1	amitraz	C ₁₀ H ₂₃ N ₃	293.4	86				1 mg/l	25	5.5				S
333	144-54-7	carbam	C ₂ H ₅ NS ₂	107.2											
334	2439-01-2	6-methyl-1,3-dithio[4,5-b]quinoxalin-2-one	C ₁₀ H ₆ N ₂ OS ₂	234.3	172		2X10 ⁻⁷ mmHg	20	1 mg/l	25	3.78	0.00625			S
335	98-83-9	-methylstyrene	C ₉ H ₁₀	118.2	-23.2	163-164	1.9 torr	20	560 ppm	25	3.48	53.4	0.9082	20	L
336	108-99-6	3-methylpyridine	C ₆ H ₇ N	93.1	-18.3	143-144	6.05 mmHg	25	1,000,000 mg/l	25	1.2	0.0751	0.9613	15	L
337	61432-55-1	dimepiperate	C ₁₅ H ₂₁ NOS	263.4	39	166			20 mg/l	25	4.02				L/S

No	CAS No	Name	Molecular formula	Molecular weight	Melting point	Boiling point	Vapor pressure	temp	Water solubility	temp	Octanol-water partition coefficient LogPow	Henry's constant (Pa·m ³ /mol)	Specific gravity	temp	State
338	26471-62-5	m-tolylene diisocyanate	C ₉ H ₈ N ₂ O ₂	174.2	20	251	0.01 mmHg	20	37.6 mg/l	25	3.74 (calculated)	6.17			L/S
339	88-85-7	2-(1-methylpropyl)-4,6-dinitrophenol	C ₁₀ H ₁₂ N ₂ O ₅	240.2	38-42	69-73	1 mmHg	151.1	0.0052 w/w%		3.56		1.2647	45	L/S
340	101-77-9	4,4'-methylenedianiline	C ₁₃ H ₁₄ N ₂	198.3	91.5-92	398-399 (768mmHg)	1 mmHg	197	1 g/l	25	1.59				S
341	5124-30-1	methylenebis(4,1-cyclohexylene) diisocyanate	C ₁₅ H ₂₂ N ₂ O ₂	262.4	-10	245 (54mmHg)	1X10 ⁻³ mmHg	25							L
342	88678-67-5	pyributicarb	C ₁₈ H ₂₂ N ₂ O ₂ S	330.4	86				0.32 mg/l	20	5.18				S
343	298-81-7	methoxsalen	C ₁₂ H ₈ O ₄	216.2	148				47.6 mg/l	30	2.14 (calculated)				S
344	120-71-8	2-methoxy-5-methylaniline	C ₉ H ₁₁ NO	137.2	51.5	235	1.02X10 ⁻² mmHg	25	4,700 mg/l	25	1.67 (calculated)	0.0368			S
345	68-11-1	mercaptoacetic acid	C ₂ H ₄ O ₂ S	92.1	-16.5	123 (29mmHg)	10 torr	18	1,000,000 mg/l	25	0.09		1.325	20	L
346		- molybdenum and its compounds													
347	470-90-6	chlorfenvinphos; CVP	C ₁₂ H ₁₄ Cl ₃ O ₄ P	359.6	-19- -23	167-170 (0.5mmHg)	0.53 mPa	20	145 mg/l	23	3.82	0.00131			L
348	2274-67-1	dimethylvinphos	C ₁₀ H ₁₀ Cl ₃ O ₄ P	331.5	69.5				130 mg/l	20	3.13				S
349	300-76-5	naled; BRP	C ₄ H ₇ Br ₂ Cl ₂ O ₄ P	380.8	26.5-27.5	120 (0.5mmHg)	2.66 mPa	20	2,000 mg/l		1.38	5.06 x 10 ⁻⁴	1.96	25	L/S
350	62-73-7	dichlorvos; DDVP	C ₄ H ₇ Cl ₂ O ₄ P	221.0	< 25	140 (20mmHg)	0.0158 mmHg	25	Ca 10 g/l	20	1.47	0.0465	1.415	25	L
351	6923-22-4	monocrotophos	C ₇ H ₁₄ NO ₅ P	223.2	54-55	125	2.9X10 ⁻⁴ Pa	20	1 kg/kg	20	-0.2	6.47 x 10 ⁻⁸	1.22	20	S
352	115-96-8	tris(2-chloroethyl) phosphate	C ₆ H ₁₂ Cl ₃ O ₄ P	285.5	-55	330	0.06125 mmHg	25	7,000 ppm		1.43	0.333	1.425	20	L
353	25155-23-1	tris(dimethylphenyl) phosphate	C ₂₄ H ₂₇ O ₄ P	410.5		243-265 (10mmHg)	5.15X10 ⁻⁸ mmHg	30	0.89 ppm	25	5.63	0.00317	1.155		
354	126-73-8	tri-n-butyl phosphate	C ₁₂ H ₂₇ O ₄ P	266.3	< -80	289 (decomposition)	0.8 mmHg	114	280 mg/l		4		0.976	25	L

Note) Henry's constant is calculated value at temperature of 25 degree.

(Henry's constant ($\text{Pa} \cdot \text{m}^3/\text{mol}$) = vapor pressure(Pa) \div (water solubility (g/m^3) \div molecular weight(g/mol)))

S : solid at ordinary temperature, L : liquid at ordinary temperature, G : gas at ordinary temperature