Chemical names from https://someonesdad1.github.io/hobbyutil/project_list.html

Old name	Chemical name	Formula
Acetic ether	Ethyl acetate	$C_2H_5O_2C_2H_3$
Acetone	Dimethyl ketone, 2-propanone	$OC(CH_3)_2$
Acid of air	Carbon dioxide	CO_2
Acid of ants	Formic acid	
Acid of apples	Malic acid	
Acid of lemon	Citric acid	
Acid of milk	Lactic acid	
Acid of salt	Hydrochloric acid	HCl
Acid of sugar	Oxalic acid	$H_2C_2O_4{\cdot}H_20$
Acid potassium sulphate	Potassium bisulphate	$KHSO_4$
Acidum saltus	Hydrochloric acid	HCl
Ackey	Nitric acid	HNO_3
Aer urinosa	Ammonia	
Alcali volatil	Ammonium hydroxide	NH_4OH
Alcohol sulphuris	Carbon disulfide	CS_2
Alcohol, grain	Ethyl alcohol (ethanol)	C_2H_5OH
Alcohol, wood	Methyl alcohol (methanol)	CH_3OH
Alembroth, salt of		$Hg_2(NH_4)_2Cl_4{\cdot}H_2O$
Algaroth, powder of		SbOCl
Alizarin	1,2-dihydroxyanthraquinone, a red dye	$C_{14}H_8O_4$
Alizarin black	Naphtharazine, 5,8-dihydroxy-1,4-naphthoquinone, a black dye	$C_{10}H_6O_4$
Alizarin blue	A dihydroxyanthraquinone quinoline	$C_{17}H_9O_4$
Alizarin bordeaux	1,2,3-trihydroxyanthraquinone, a dye derived from anthraquinone	$C_{14}H_8O_5$
Alizarin brown	1,2,3-trihydroxyanthraquinone, a dye derived from anthraquinone	$C_{14}H_8O_5$
Alizarin red	Alizarin sodium sulfonate, the sodium salt of the sulfonic acid of alizarin; an acid-base indicator	$NaC_{14}H_7O_7S$
Alizarin yellow	Sodium *p*-nitraniline salicylate, an acid-base indicator	$C_{13}H_{10}NO_5$
Alum	Aluminum potassium sulfate	$AlK(SO_4)_2{\cdot}12H_2O$
Alumina	Aluminum oxide	Al_2O_3
Alundum	Fused aluminum oxide	Al_2O_3
Ammonia	Ammonium hydroxide	NH_4OH
Aniline purple	Mauveine, the first aniline dye	$C_{27}H_{24}N_4$
Anthracene blue	A dihydroxyanthraquinone quinoline	$C_{17}H_9O_4$
Antichlor	Sodium thiosulfate	$Na_2S_2O_3{\cdot}5H_2O$

Antimony black	Antimony trisulfide	Sb_2S_3
Antimony bloom	Antimony oxide	Sb_2O_3
Antimony flowers	antimony oxysulphide	$Sb_2S_3 + Sb_2O_3$
Antimony glance	Stibnite, antimony sulfide mineral	Sb_2S_3
Antimony ochre	Stibiconite, an antimony mineral	$Sb_2O_3(OH)_2$
Antimony red	antimony oxysulphide	$Sb_2S_3 + Sb_2O_3$
Antimony vermillion	antimony oxysulphide	$Sb_2S_3 + Sb_2O_3$
Aqua ammonia	Ammonium hydroxide solution	$NH_4OH + H_20$
Aqua fortis	Nitric acid	HNO_3
Aqua regia	Nitric & hydrochloric acid	$HNO_3 + HCl$
Aqua vitae	Aqueous ethanol	C_2H_5OH
Argentum	Silver	Ag
Arnaudon's green	Chromium phosphate	$CrPO_4$
Aromatic spirits of ammonia	Ammonia gas in alcohol	...
Arsenic glass	Arsenic trioxide	As_4O_6
Asbestos	Magnesium silicate	$Mg_3Si_2O_7 \cdot 2H_2O$
Ascorbic acid	Vitamin C	$C_6H_8O_6$
Aspirin	Acetylsalicylic acid	$C_2H_3O_2C_6H_4CO_2H$
Aurum	Gold	Au
Azotic air	Nitrogen	N_2
Azurite	Mineral form of basic copper carbonate	$CuCO_3$
Baker's salt	Ammonium carbonate	$(NH_4)_2CO_3$
Baking soda	Sodium bicarbonate	$NaHCO_3$
Banana oil	Amyl acetate	$CH_3CO_2C_5H_{11}$
Barilla	Impure sodium carbonate	
Barium white	Barium sulfate	$BaSO_4$
Barium white	Barium sulfate	$BaSO_4$
Baryta	Barium oxide	BaO
Bauxite	Impure aluminum oxide	Al_2O_3
Benzal green	Triphenylmethane dye, acid-base indicator	$C_{23}H_{25}N_2Cl$
Benzine	Ligroin or petroleum ether; sometimes benzene	
Benzol	Benzene	C_6H_6
Bicarbonate of soda	Sodium hydrogen carbonate or sodium bicarbonate	$NaHCO_3$
Bichloride of mercury	Mercuric chloride	$HgCl_2$

Bichrome	Potassium dichromate	$K_2Cr_2O_7$
Bismuth ochre	Bismite	$Bi_2O_3 \cdot 3H_2O$
Bitter salt	Magnesium sulfate (Epsom salts)	$MgSO_4 \cdot 7H_2O$
Bitter salt	Magnesium sulphate	$MgSO \cdot 7H_2O$
Black ash	Impure sodium carbonate mixed with unburnt carbon	
Black ash	Crude form of sodium carbonate	Na_2CO_3
Black lead	Graphite	C
Black oxide of copper	Cupric oxide	CuO
Black oxide of mercury	Mercurous oxide	Hg_2O
Black precipitate	A black powder	$Hg_2O \cdot Hg_2NH_2NO_3$
Black silver	Stephanite, a silver antimony sulfide mineral	$5Ag_2S \cdot Sb_2S$
Blanc-fixe	Barium sulfate	$BaSO_4$
Bleaching powder	Formed by passing chlorine gas over dry calcium hydroxide; with water, it is a mixture of $CaCl_2$ and $Ca(OCl)_2$.	
Bleaching powder	Calcium hypochlorite	$CaOCl_2$
Blue copperas	Copper sulfate	$CuSO_4 \cdot 5H_2O$
Blue lead	Lead sulfate	$PbSO_4$
Blue salts	Nickel sulfate	$NiSO_4 \cdot 7H_2O$
Blue stone	Copper sulfate	$CuSO_4 \cdot 5H_2O$
Blue vitriol	Copper sulfate	$CuSO_4 \cdot 5H_2O$
Bogore	Bog iron ore	$2Fe_2O_3 \cdot 3H_2O$
Bone ash	Impure calcium carbonate	$CaCO_3$ + ?
Bone black	Impure charcoal from bones and blood	
Boracic acid	Boric acid	H_3BO_3
Borax	Sodium borate	$Na_2B_4O_7 \cdot 10H_2O$
Bremen blue	Copper carbonate	
Brimstone	Sulfur	S
Brine	Strong NaCl solution	NaCl + H_2O
Brown ochre	Bog iron ore	$2Fe_2O_3 \cdot 3H_2O$
Brunswick green	Copper oxychloride or copper carbonate	$CuOCl \cdot Cu(OH)_2$
Burnt alum	Anhydrous potassium aluminum sulfate	...
Burnt lime	Calcium oxide	CaO
Burnt ochre	Ferric oxide	Fe_2O_3
Burnt ore	Ferric oxide	Fe_2O_3
Butter of antimony	Antimony trichloride	$SbCl_3$

Butter of tin	Anhydrous stannous chloride	$SnCl_4 + 5H_2O$
Butter of X	Chloride or trichloride of X	...
Butter of zinc	Zinc chloride + 1/4 its weight in water	$ZnCl_2 + H_2O$
Calcareous earth	Calcium oxide	CaO
Caliche	Impure sodium nitrate	$NaNO_3$
Calomel	Mercurous chloride	Hg_2Cl_2
Carbolic acid	Phenol	C_6H_5OH
Carbonate of lime	Calcium carbonate	$CaCO_3$
Carbonic acid	Carbon dioxide	CO_2
Carbonic acid gas	Carbon dioxide	CO_2
Carburetted hydrogen	Methane	CH_4
Caro's acid	Permonosulfuric acid	H_2SO_5
Cassel yellow	Lead oxychloride	$PbCl_2 \cdot 2PbO$
Caustic earth	Calcium hydroxide	$Ca(OH)_2$
Caustic lime	Calcium hydroxide	$Ca(OH)_2$
Caustic potash	Potassium hydroxide	KOH
Caustic soda	Potassium hydroxide	KOH
Caustic vegetable alkali	Potassium hydroxide	KOH
Ceruse	Lead carbonate	$2PbCO_3 \cdot Pb(OH)_2$
Chalk	Calcium carbonate	$CaCO_3$
Chamber crystals	Nitrosyl sulfate	$NO \cdot HSO_4$
Chile nitre	Sodium nitrate	$NaNO_3$
Chile saltpeter	Sodium nitrate	$NaNO_3$
Chinese red	Basic lead chromate	$PbCrO_4$
Chinese white	Zinc oxide	ZnO
Chloride of lime	Calcium hypochlorite	$Ca(ClO)_2$
Chloride of soda	Sodium hypochlorite	$NaOCl$
Chlorinated lime	Bleaching powder	
Chloroform	Trichloromethane	$CHCl_3$
Chrome alum	Chromium potassium sulfate	$CrK(SO_4)_3 \cdot 12H_2O$
Chrome green	Chromium oxide	Cr_2O_3
Chrome red	Lead chromate	PbCrO4·PbO
Chrome yellow	Lead chromate	$PbCrO_4$
Chromic acid	Chromium trioxide	CrO_3
Cinnabar	Mercury sulfide, a red pigment	HgS
Cobalt blue	A pigment containing cobalt oxide, CoO, zinc oxide, Zn, and chalcedony, an amorphous quartz, SiO_2	

Cobalt green	A green pigment, solid solution of cobalt and zinc oxides, CoO and ZnO	
Cobalt red	Erythrite, a native cobalt arsenate	$Co_3(AsO_4)_2 \cdot 8H_2O$
Cobalt violet	Cobalt phosphate, a pigment in oil paints	$Co_3(PO_4)_2 \cdot 2H_2O$
Cobalt yellow	Cobalt potassium nitrite	$K_3Co(NO_2)_6 \cdot xH_2O$
Colcothar	Iron oxide (Paris red)	Fe_2O_3
Columbium	Niobium	Nb
Concrete volatile alkali	Ammonium carbonate	$(NH_4)_2CO_3$
Congo blue	Blue dye	$C_{17}H_{12}N_3O_7S_2Na_2$
Congo red	Red dye	$C_{32}H_{22}N_6O_6S_2Na_2$
Congo yellow	Orange-red dye	$C_{24}H_{18}O_4N_5SNa$
Copperas	Ferrous sulfate	$FeSO_4 \cdot 7H_2O$
Corrosive sublimate	Mercuric chloride	$HgCl_2$
Corundum	Aluminum oxide	Al_2O_3
Coupier's blue	Blue dye	$C_{24}H_{18}N_2$
Cream of tartar	Potassium bitartrate purified into small white crystals	$KHC_4H_4O_6$
Creech	Calcium sulfate	$CaSO_4$
Cremor tartari	Tartar purified into small white crystals	$KHC_4H_4O_6$
Cresol purple	*m*-cresolsulfonphthalein, acid-base indicator	$C_{21}H_{18}O_5S$
Cresol red	*o*-cresolsulfonphthalein, acid-base indicator	$C_{21}H_{18}O_5S$
Crocus	A yellow or reddish powdered calx (oxide)	
Crocus of antimony	Impure antimony oxysulfide	
Crocus of copper	Cuprous oxide	Cu_2O
Crocus of iron	Iron sesquioxide or peroxide	
Crocus of lead	Red lead	
Crocus powder	Ferric oxide	Fe_2O_3
Crystal carbonate	Sodium carbonate	Na_2CO_3
Cyanocobalamin	Vitamin B_{12}	$C_{63}H_{90}CoN_{14}O_{14}P$
DDT	Dichlorodiphenyltrichloroethane	$(C_6H)*Cl_2*CH*CCl_3$
Dechlor	Sodium thiophosphate	$Na_3(PO_3)_3S\ XH_2O$, x=12-18
Diamine blue	Blue dye	$C_{17}H_{12}N_3O_7S_2Na_2$
Diamond	Carbon crystal	C
Diuretic salt	Potassium acetate	KC_2H_3O
Dry ice	Solid carbon dioxide	CO_2
Dutch liquid	Ethylene dichloride	CH_2Cl*CH_2Cl
Dutch oil	Ethylene chloride	$C_2H_4Cl_2$

Dydymium	Mixture of Pr and Nd	
Earth	A metal oxide	
Emery powder	Impure aluminum oxide	Al_2O_3
Epsom salts	Magnesium sulfate	$MgSO_4 \cdot 7H_2O$
Ethanol	Ethyl alcohol	C_2H_5OH
Ether	Ethyl ether	$(C_2H_5)_2O$
Ethiops mineral	Mercury sulfide	Hg_2S
Ethyl gas	Leaded gasoline (i.e., includes tetraethyllead $(C_2H_5)_4Pb$ as an additive)	
Everitt's salt	Potassium ferrous ferrocyanide	$K_2Fe[Fe(CN)_6]$
Farina	Starch	Complex carbohydrate
Ferro prussiate	Potassium ferricyanide	$K_3Fe(CN)_6$
Ferrum	Iron	Fe
Fixed vegetable alkali	Crude or purified potassium carbonate	K_2CO_3
Fixed white	Barium sulfate	$BaSO_4$
Flores Martes	Anhydrous ferric chloride	Fe_2Cl_6
Flores martiales	Ferriammonium chloride	NH_4FeCl_4
Flowers of sulphur	Sulfur	S
Flowers of X	Oxide of X (X is usually a metal)	...
Fluor, fluorspar	Calcium fluoride	CaF_2
Fluorspar	Natural calcium fluoride	CaF_2
Folic acid	Vitamin B_c	$C_{19}H_{19}N_7O_6$
Formalin	Formaldehyde	HCOH
Fossil alkali	Sodium carbonate	
French chalk	Natural magnesium silicate	$H_2Mg_3(SiO_3)_4$
French vergidris	Basic copper acetate	$Cu(C_2H_2O_2)_2 \cdot H_20$
Fulminating silver	Silver nitride	Ag_3N
Galena	Natural lead sulfide	PbS
Glacial	Glass-like, crystalized	
Glance	Mineral with a glassy appearance	
Glauber's salt	Sodium sulfate	$Na_2SO_4 \cdot 10H_2O$
Glucinium or glucinum	Beryllium	Be
Grain alcohol	Ethyl alcohol	C_2H_5OH
Green lion	Iron sulfate	$FeSO_4$
Green salt	Uranium fluoride	UF_4
Green verditer	Basic copper carbonate	$CuCO_3$
Green vitriol	Ferrous sulfate	$FeSO_4 \cdot 7H_2O$
Gun cotton	Cellulose nitrate	$C_6H_8(NO_2)_2O_5$

Gypsum	Natural calcium sulfate	$CaSO_4 \cdot 5H_2O$
Hahnemann's mercury	A black powder	$Hg_2O \cdot Hg_2NH_2NO_3$
Hard oil	Boiled linseed oil	...
Heavy spar	Barium sulfate	$BaSO_4$
Hepar	Sulfide	
Hepatic air	Hydrogen sulfide	H_2S
Hepatic air	Hydrogen sulfide	H_2S
Homberg's salt	Boric acid	$B(OH)_3$
Horn silver	Native silver chloride	$AgCl$
Hydrargyrum	Mercury	Hg
Hydrated lime	Calcium hydroxide	$Ca(OH)_2$
Hydrocyanic acid	Hydrogen cyanide	HCN
Hypo	Sodium thiosulfate	$Na_2S_2O_3 \cdot 5H_2O$
Indian red	Ferric oxide	Fe_2O_3
Iron perchloride	Ferric chloride	$FeCl_3 \cdot 6H_2O$
Iron pernitrate	Ferric nitrate	$Fe(NO_3)_3 \cdot 9H_2O$
Iron persulphate	Ferric sulfate	$Fe(SO_4)_3 \cdot nH_2O$
Iron protochloride	Ferrous chloride	$FeCl_2 \cdot 4H_2O$
Isinglass	Agar-agar gelatin	...
Javelle water	Originally potassium hypochlorite solution, now usually sodium hypochlorite	Originally $KOCl + H_2O$, now $NaOCl + H_2O$
Jeweler's etchant	3 g silver nitrate + 3 g nitric acid + 3 g mercurous nitrate + 100 cc H2O	$HgNO_3 \cdot H_2O + AgNO_3 + HNO_3 + H_2O$
Jeweler's rouge	Ferric oxide	Fe_2O_3
K.N.S. solution	10 g ammonium carbonate + 20 g ammonium peroxydisulphide + 200 cc ammonium hydroxide	$NH_4CO_3 \cdot H_2O + (NH_4)_2S_2O_8 + NH_4OH$
Kalium	Potassium	K
Killed spirits	Zinc chloride	$ZnCl_2$
King's yellow	Arsenic sulfide	As_2S_3
Kurrol's salt	Potassium phosphate	$(KPO_3)_4$
Labarraque's solution	Sodium hypochlorite solution	$NaOCl + H_2O$
Lampblack	Crude form of carbon, charcoal	C
Lapis causticus	Fused sodium or potassium hydroxide	
Lapis imperialis	Silver nitrate	$AgNO_3$
Lapis lunarius	Fused silver nitrate	$AgNO_3$
Laughing gas	Nitrous oxide	N_2O
Lead black	Graphite	C

Lead peroxide	Lead dioxide	PbO_2
Lead protoxide	Lead oxide	PbO
Lead white	Lead carbonate	$2PbCO_3 \cdot Pb(OH)_2$
Lead, red	Lead oxide	Pb_3O_4
Leipzig yellow	Lead chromate	$PbCrO_4$
Libavius, fuming liquor of	Tin tetrachloride	$SnCl_4$
Lime	Calcium oxide	CaO
Lime, slaked	Calcium hydroxide	$Ca(OH)_2$
Lime, unslaked	Calcium oxide	CaO
Limewater	Calcium hydroxide solution	$Ca(OH)_2 + H_2O$
Liquor ammonia	Ammonium hydroxide solution	NH_4OH
Litharge	Lead oxide	PbO
Lithopone	Zinc sulfide + barium sulfate	$ZnS + BaSO_4$
Liver of sulphur	Melted potassium carbonate + sulphur	$K_2CO_3 + S$
Lunar caustic	Silver nitrate	$AgNO_3$
Lye	Potassium hydroxide solution	KOH
Magnesia	Magnesium oxide	MgO
Magnesia alba levis	Magnesium carbonate and magnesium oxide	$4MgCO_3 \cdot Mg(OH)_2 \cdot 5H_2O$
Magnesia nigra	Pyrolusite, natural manganese dioxide	MnO_2
Magnesite	Magnesium carbonate	$MgCO_3$
Magnus salt	Tetrammineplatinum tetrachloroplatinate	$Pt(NH_3)_4PtCl_4$
Malachite green	Copper carbonate	$Cu_2(OH)_2CO_3$
Manganese black	Manganese dioxide	MnO_2
Manganese green	Barium manganate	$BaMnO_4$
Manganese red	Rhodonite $MnSiO_3$ or rhodochrosite $MnCO_3$	
Marble	Calcium carbonate	$CaCO_3$
Marignac salt	Potassium tin sulfate	$K_2Sn(SO_4)_2$
Marine acid	Hydrochloric acid	HCl
Marine alkali	Sodium carbonate	
Marsh gas	Methane	CH_4
Martius yellow	The calcium salt of naphthalene yellow	
Massicot	Lead oxide (yellow)	PbO
Mercurial nitre	Mercuric nitrate	$Hg(NO_3)_2$
Mercurius calcinatus per se	Mercuric oxide	HgO
Mercury oxide, black	Mercury(II) oxide	HgO
Metanil yellow	Sodium salt of 4'-aniline azobenzenesulfonic acid, an acid-base indicator	$C_{12}H_{10}N_3O_3SNa$

Methanol	Methyl alcohol	CH_3OH
Methyl green	A triphyenylmethane dye and acid-base indicator	$C_{25}H_{30}N_3Cl$
Methyl orange	Sodium *p*-dimethylaminobenzenesulfonate, an acid-base indicator	$C_{14}H_{14}O_3N_3SNa$
Methyl red	*o*-dimethylaminoazobenzenecarboxylic acid, an acid-base indicator	$C_{15}H_{15}O_2N_3$
Methylated spirits	Methyl alcohol	CH_3OH
Methylene blue	3,9-bisdimethylaminophenazothionium chloride trihydrate, an acid-base indicator	$C_{16}H_{18}N_3SCl \cdot 3H_2O$
Microcosmic salt	Sodium ammonium phosphate	$NaNH_4HPO_4 \cdot 4H_2O$
Mild earth	Calcium carbonate	$CaCO_3$
Mild vegetable alkali	Crude or purified potassium carbonate	K_2CO_3
Milk of barium	Barium hydroxide + water	$Ba(OH)_2$
Milk of bismuth	Bismuth nitrates + water	$Bi(OH)_2NO_3$ and/or $BiOH(NO_3)_2$
Milk of lime	Calcium hydroxide + water	$Ca(OH)_2$
Milk of magnesia	Magnesium hydroxide + water	$Mg(OH)_2$
Milk of sulfur	Precipitated sulfur	S
Millon's base	Formed from a solution of mercuric oxide in ammonium chloride	$(HOHg)_2NH_2OH$
Mineral alkali, common	Hydrated sodium carbonate	
Mineral dye blue	A blue copper or tungsten ore, or a mixture of ferriferrocyanide, $Fe_4[Fe(CN)_6]_3$, with calcium or barium sulfate	
Mineral dye green	Copper carbonate	
Mineral dye purple	Reddish iron oxide pigment	
Mineral dye white	Hydrated calcium sulfate	
Mineral dye yellow	Lead oxychloride	$PbCl_2 \cdot 2PbO$
Minium	Red lead oxide	Pb_3O_4
Mohr salt	Ferrous ammonium sulfate	$(NH_4)_2Fe(SO_4)_2 \cdot 6H_2O$
Molybdic ochre	Molybdite, yellow molybdenum oxide	MoO_3
Monsel salt	Iron sub-sulfate	$Fe_4(SO_4)_5O$
Monthier blue	Blue pigment	$FeNH_4[Fe(CN)_6]$
Mosaic gold	Tin sulfide pigment	SnS_2
Muriate of lime	Calcium chloride	$CaCl_2$
Muriate of mercury	Mercuric chloride	$HgCl_2$
Muriate of X	Chloride of X	...
Muriatic acid	Hydrochloric acid	HCl
Muriatic ether	Ethyl chloride	C_2H_5Cl
Mustard gas	A di(chloroethyl)sulfide	$(ClCH_2CH_2)_2S$

Naphthalene yellow	A dinitro 1-naphthol	$C_{10}H_5(NO_2)_2OH$
Naples yellow	Lead antimoniate, a yellow pigment	$Pb_3(SbO_4)_2$
Natron	Sodium carbonate	Na_2CO_3
Natural gas	Mostly methane	CH_4
Neutral red	Dimethyldiaminotoluphenazine hydrochloride, an acid-base indicator	
Niacin	Vitamin B_3	$C_6H_5NO_2$
Niagra blue	Blue dye	$C_{17}H_{12}N_3O_7S_2Na_2$
Nickel bloom	Annabergite, a green mineral	$Ni_3As_2O_2 \cdot 8H_2O$
Nickel ochre	Annabergite, a green mineral	$Ni_3As_2O_2 \cdot 8H_2O$
Nicotinic acid	Vitamin B_3	$C_6H_5NO_2$
Nile blue	Aniline dye and acid-base indicator	$C_{20}H_{19}ON_3$
Niter	Potassium nitrate	KNO_3
Niton	Radon	Rn
Nitrate of silver	Silver nitrate	$AgNO_3$
Nitre	Potassium nitrate	KNO_3
Nitre or niter	Potassium nitrate	KNO_3
Nitric ether	Ethyl nitrate	$C_2H_5NO_3$
Nitrous air	Nitric dioxide (laughing gas)	N_2O
Nitrous ether	Ethyl nitrite	$C_2H_5NO_2$
Nitrous ether	Ethyl nitrite	$C_2H_5NO_2$
Nordhausen acid	Fuming sulfuric acid; i.e. a solution of sulfur trioxide, SO_3, in concentrated (about 98%) sulfuric acid	$H_2SO_4 + SO_3$
Norwegian nitre	Calcium nitrate	$Ca(NO_3)_2$
Oil of ants	Furfural	$C_5H_4O_2$
Oil of apples	Amyl valerate (n-pentyl pentanoate)	$C_4H_9COC_5H_{11}$
Oil of bananas	n-pentyl acetate	$CH_3COC_5H_{11}$
Oil of bitter almonds	Benzaldehyde	C_6H_5CHO
Oil of cognac	Ethyl hexyl ether (enanthic ether)	$C_6H_{13}OC_2H_5$
Oil of garlic	Allyl sulfide	$(C_3H_5)_2S$
Oil of glonoin	Nitroglycerin	$C_3H_5N_3O_9$
Oil of mars	Deliquescent anhydrous ferric chloride	$FeCl_3 + H_2O$
Oil of mirbane	Nitrobenzene	$C_6H_5NO_2$
Oil of mustard, artificial	Allyl isothiocyanate	C_3H_5NCS
Oil of pears	n-pentyl acetate	$CH_3COC_5H_{11}$

Oil of pineapple	Ethyl butyrate	$C_3H_7COOC_2H_5$
Oil of tartar	A saturated solution of potassium carbonate	K_2CO_3
Oil of vitriol	Sulfuric acid	H_2SO_4
Oil of wintergreen	Methyl salicylate	$C_6H_4OHCOOCH_3$
Olefiant gas	Ethene	C_2H_4
Oleum	Fuming sulfuric acid; i.e. a solution of sulfur trioxide, SO_3, in concentrated (about 98%) sulfuric acid	$H_2SO_4 + SO_3$
Orpiment	Arsenic trisulfide	As_2S_3
Orthophosphoric acid	Phosphoric acid	H_3PO_4
Oxygenated muriatic acid	Chlorine	Cl_2
Oxymuriate of mercury	Mercuric chloride	$HgCl_2$
Oxymuriate of potassium	Potassium chlorate	$KClO_3$
Oxymuriatic acid	Chlorine	Cl_2
Paris blue	Ferric ferrocyanide,	$Fe_7(CN)_{18}(H_2O)_x$ where 14 <= x <= 16
Paris green	Copper aceto-arsenite	$3Cu(AsO_2)_2 \cdot Cu(C_2H_3O_2)_2$
Paris red	Red lead oxide	Pb_3O_4
Paris white	Powdered calcium carbonate	$CaCO_3$
Paris yellow	Lead chromate	$PbCrO_4$
Patent yellow	Lead oxychloride	$PbO \cdot PbCl_2$
Pear essence	Isoamyl acetate, also called banana oil	$C_7H_{14}O_2$
Pearl ash	Impure calcined potassium carbonate	K_2CO_3
Péligot's salt	Potassium chlorochromate	$KCrO_3Cl$
Perkin's mauve	Mauveine, the first aniline dye	$C_{27}H_{24}N_4$
Perkin's violet	Mauveine, the first aniline dye	$C_{27}H_{24}N_4$
Permanent white	Barium sulfate	$BaSO_4$
Peroxide	Hydrogen peroxide solution	$H_2O_2 + H_2O$
Phenol red	Phenolsulfonphthalein, an acid-base indicator	$C_{19}H_{14}O_5S$
Phosgene	Carbonyl chloride	$COCl_2$
Phosphine		PH_3
Phosphuretted hydrogen	Phosphine	PH_3
Plaster of Paris	Calcium sulfate	$(CaSO_4)_2 \cdot H_2O$
Plessy's green	Chromium phosphate	$CrPO_4$

Plimmer's salt	Sodium antimony tartrate	$Na(SbO)C_4H_4O_6$
Plumbago	A lead ore, including lead oxide (litharge) or lead sulfide (galena); or graphite	
Plumbic ochre	Brown lead oxide	PbO_2
Plumbum	Lead	Pb
Plumbum album	Lead carbonate	$2PbCO_3 \cdot Pb(OH)_2$
Plumbum candidum	Lead carbonate	$2PbCO_3 \cdot Pb(OH)_2$
Pompholix	Crude zinc oxide	ZnO
Potash	Potassium carbonate	K_2CO_3
Potassa	Potassium hydroxide	KOH
Precipitated chalk	Calcium carbonate	$CaCO_3$
Prussian blue	Complex salts used in inks and dyes resulting from the oxidation of the white precipitate of a solution of iron(II) sulfate, $FeSO_4$, and potassium ferrocyanide, $K_4Fe(CN)_6$	$Fe_7(CN)_{18}(H_2O)_x$ where 14 <= x <= 16
Prussic acid	Hydrocyanic acid	HCN
Purple crystals	Potassium permanganate	$KMnO_4$
Pyridoxin	Vitamin B_6	$C_8H_{11}NO_3$
Pyrite	Originally any "fire-stone" from which sparks could be struck; eventually an iron sulfide or iron-copper sulfide	
Pyro	Pyrogallic acid	$C_6H_3(OH)_3$
Pyroacetic spirit	Acetone	$(CH_3)_2CO$
Pyroligneous acid	Distillate from wood, containing acetic acid, methanol, and acetone	
Pyroligneous spirit	Methanol	CH_3OH
Pyroxylic spirit	Methanol	CH_3OH
Quicklime	Calcium oxide	CaO
Quicksilver	Mercury	Hg
Racemic acid	An optically inactive form of tartaric acid consisting of equal quantities of optical isomers	
Radium A	^{218}Po, $\lambda = 3$ minutes	
Radium C	^{214}Bi, $\lambda = 20$ minutes; ^{214}Po (C'); C_2 210Tl, $\lambda = 1.3$ minutes	
Radium D	^{210}Pb, $\lambda = 21$ years	
Radium E	^{210}Bi	
Radium F	^{210}Po, $\lambda = 140$ days	
Radium G	^{206}Pb	
Realgar	Arsenic sulfide	As_2S_2
Red arsenic	Arsenic sulfide	As_2S_2

Red lead	Red lead oxide	Pb_3O_4
Red liquor	Aluminum acetate solution	$(CH_3CO_2)_2AlOH$
Red ochre	Hematite	Fe_2O_3
Red orpiment	Arsenic sulfide	As_2S_2
Red oxide of copper	Cuprous oxide	Cu_2O
Red oxide of mercury	Mercuric oxide	HgO
Red prussiate	Potassium ferricyanide	$K_3Fe(CN)_6$
Red prussiate of potash	Potassium ferricyanide	$KC_3Fe(CN)_6$
Red prussiate of soda	Sodium ferrocyanide	$Na_4Fe(CN)_6$
Red vitriol	Cobalt sulfate	$CoSO_4 \cdot 7H_2O$
Regulus	Antimony	Sb
Reinecke's acid	Tetrathiocyanodiammonochromic acid	$HCr(NH_3)_2(SCN)_4$
Reinecke's salt	An ammonium salt of Reinecke's acid	$NH_4[Cr(NH_3)_2(SCN)_4] \cdot H_2O$
Retinol	A fat-soluble vitamin derived from carotenes	$C_{20}H_{30}O$
Riboflavin	Vitamin B_2	$C_{17}H_{20}N_4O_6$
Rochelle salt	Potassium sodium tartrate	$KNaC_4H_4O_6 \cdot 4H_2O$
Rock salt	Sodium chloride	$NaCl$
Roman vitriol	Copper sulfate	$CuSO_4 \cdot 5H_2O$
Rose vitriol	Cobalt sulfate	$CoSO_4 \cdot 7H_2O$
Rouge	Ferric oxide	Fe_2O_3
Rouge, jeweler's	Ferric oxide	Fe_2O_3
Rough nitre	Magnesium chloride	$MgCl_2$
Rubbing alcohol	Isopropyl alcohol	$CH_3CHOHCH_3$
Ruby	Red corundum	Al_2O_3
Ruby arsenic	Arsenic sulfide	As_2S_2
Ruby blende	Red sphalerite (zinc sulfide)	ZnS
Ruby copper	Cuprite, copper oxide	Cu_2O
Ruby silver	Proustite	Ag_3AsS_3
Ruby sulfur	Arsenic sulfide	As_2S_2
Saccharum saturni	Sugar of lead; lead acetate	
Sal acetosella	Potassium hydrogen oxalate	KHC_2O_4
Sal aeratus	Potassium hydrogen carbonate	$KHCO_3$
Sal albus	Borax	
Sal alembroth	Insoluble white powder	$HgNH_2Cl$

Sal ammoniac	Ammonium chloride	NH_4Cl
Sal armoniack	Ammonium chloride	NH_4Cl
Sal commune	Sodium chloride	NaCl
Sal de duobus	Potassium sulfate	K_2SO_4
Sal enixum	Glauber's salt	
Sal fossile	Sodium chloride	NaCl
Sal marinum	Sodium chloride	NaCl
Sal nitri	Nitre	
Sal nitrum	Nitre	
Sal sapientiae	Mercury ammonium chloride	$HgNH_2Cl$
Sal soda	Crystalline sodium carbonate	$NaHCO_3$
Sal spaientiae	Insoluble white powder	$HgNH_2Cl$
Sal volatile	Ammonium carbonate	$(NH_4)_2CO_3$
Saleratus	Potassium hydrogen carbonate or sodium bicarbonate	$KHCO_3$ or $NaHCO_3$
Salt	Sodium chloride	NaCl
Salt cake	Impure sodium sulfate	Na_2SO_4
Salt of hartshorn	Ammonium carbonate	$(NH_4)_2CO_3$
Salt of lemon	Potassium hydrogen oxalate	KHC_2O_4
Salt of tartar	Solid potassium carbonate	K_2CO_3
Salt of vitriol	Zinc sulfate	$ZnSO_4 \cdot 7H_2O$
Salt of wormwood	Potassium carbonate	K_2CO_3
Saltpeter	Potassium nitrate	KNO_3
Saltpeter (Chile)	Impure sodium nitrate	$NaNO_3$
Salts of hartshorn	Ammonium carbonate	$(NH_4)_2CO_3$
Salts of lemon	Potassium binoxalate	$KHC_2O_4 \cdot H_2O$
Salts of sorrol	Potassium acid oxalate	$KHC_2O_4 \cdot H_2O$
Salts of tartar	Potassium carbonate	K_2CO_3
Scheele's green	Acidic copper arsenite	$CuHAsO_3$
Schlippe's salt	Sodium sulfantimonate	$Na_3SbS_4 \cdot 9H_2O$
Schšllkopf's acid	One of 1-naphthol-4,8-disulfonic acid, 1-naphthylamine-4,8-disulfonic acid, and 1-naphthylamine-8-sulfonic acid	
Seignette's salt	Rochelle salt	
Silica	Silicon dioxide	SiO_2
Siliceous earth	Silicon dioxide	SiO_2
Silver glance	Argentite, silver sulfide	Ag_2S
Slaked lime	Calcium hydroxide	$Ca(OH)_2$

Soapstone	Impure magnesium silicate	$H_2Mg_3(SiO_3)_4$
Soda	Sodium carbonate	Na_2CO_3
Soda ash	Dry sodium carbonate	Na_2CO_3
Soluble glass	Hydrated sodium silicate	$Na_2Si_4O_9 \cdot xH_2O$
Sorrel salt	Potassium hydrogen oxalate	KHC_2O_4
Spanish green	Copper acetate (verdigris)	
Spanish white	Bismuth oxychloride, BiOCl, or oxynitrate, $BiONO_3$	
Spencer's acid	3 g silver nitrate + 3 g nitric acid + 3 g mercurous nitrate + 100 cc	$HgNO_3 \cdot H_2O + AgNO_3 + HNO_3 + H_2O$
Spirit of alum	Sulfuric acid	H_2SO_4
Spirit of colonial	Methanol	CH_3OH
Spirit of Columbian	Methanol	CH_3OH
Spirit of hartshorn	Ammonia gas in alcohol (Given in Gunsmith Kinks II as ammonium hydroxide)	...
Spirit of nitre	Nitric acid or ethyl nitrite	HNO_3 or $C_2H_5NO_2$
Spirit of nitrous ether	Ethyl nitrate	$C_2H_5NO_2$
Spirit of salt	Hydrochloric acid	HCl
Spirit of vitriol	Sulfuric acid	H_2SO_4
Spirit of wine	Concentrated aqueous ethanol	$C_2H_5OH + H_2O$
Spirit of wood	Methanol	CH_3OH
Spirits of salt	Hydrochloric acid	HCl
Spirits of wine	Ethyl alcohol	C_2H_5OH
Spiritus saltus	Hydrochloric acid	HCl
Spiritus vini	Concentrated aqueous ethanol	$C_2H_5OH + H_2O$
Stannum glaciale	Bismuth (literally glacial tin)	Bi
Sugar of lead	Lead acetate	$Pb(C_2H_3O_2)_2 \cdot 3H_20$
Sulfur per campanum	Sulfuric acid	H_2SO_4
Sulfuric ether	Diethyl ether	
Sulfuric ether	Ethyl ether	$(C_2H_5)_2O$
Sulphovinic acid	Ethyl hydrogen sulfate	$C_2H_5 \cdot HSO_4$
Sulphuret	Sulfide	
Sulphuretted	Combined or impregnated with sulfur	
Sulphuretted hydrogen	Hydrogen sulfide	H_2S
Sulphurous acid	Sulfur dioxide	SO_2
Sulphurous gas	Sulfur dioxide	SO_2
Sweet salt	Sodium chlorite	$NaClO_2$
Sweet spirit of nitre	Ethyl nitrite	$C_2H_5NO_2$

Sweet spirits of nitre	Ethyl nitrite solution with ethyl alcohol	$C_2H_5NO_2 + C_2H_5OH$
Sylvius's febrifuge salt	Potassium chloride	KCl
Talc	Magnesium silicate	$H_2Mg_3(SiO_3)_4$
Tartar	Potassium hydrogen tartrate	$KHC_4H_4O_6$
Tartar emetic	Potassium antimonyl tartrate	$KSbOC_4H_4O_6 \cdot 1/2H_2O$
Tartar of wine	Potassium hydrogen tartrate	$KHC_4H_4O_6$
Tectum argenti	Bismuth	Bi
Telluric ochre	Yellow tellurium oxide	TeO_2
Terra ponderosa	Barium oxide	BaO
Terra ponderosa aerata	Barium carbonate	$BaCO_3$
Tetrachloromethane	Carbon tetrachloride	CCl_4
Thénard's blue	Blue cobalt aluminate	$Co(AlO_2)_2$
Thiamin	Also thiamine, vitamin B_1	$C_{12}H_{17}N_4OSCl$
Thorium A	^{216}Po, $\lambda = 150$ ms	
Thorium C	212Bi, $\lambda = 61$ minutes; C' is ^{212}Po, $\lambda = 300$ ns.	
Thorium D	^{208}Tl, $\lambda = 3$ minutes	
Thorium X	^{224}Ra, $\lambda = 3.6$ days	
Thymol blue	Thymolsulphonphthalein, an acid-base indicator	$C_{27}H_{30}O_5S$
Tin salt	Stannous chloride	$SnCl_2$
Tincture of ferric chloride	Ferric chloride + ethyl alcohol	$FeCl_3 \cdot 6H_2O + C_2H_5OH$
Tincture of steel	Ferric chloride + ethyl alcohol	$FeCl_3 \cdot 6H_2O + C_2H_5OH$
TNT	Trinitrotoluene	$C_6H_2CH_3(NO_3)_3$
Toluol	Toluene	$C_6H_5CH_3$
Toluylene red	Dimethyldiaminotoluphenazine hydrochloride, an acid-base indicator	
Trona	Natural sodium carbonate/bicarbonate	$Na_2CO_3 \cdot NaHCO_3 \cdot 2H_2O$
Trypan blue	Blue dye	$C_{17}H_{12}N_3O_7S_2Na_2$
Tungstic ochre	Yellow tungsten oxide	WO_3
Turbith mineral	Basic sulfate of mercury	$HgSO_4 \cdot 2HgO$
Turnbull's blue	Ferroferricyanide	$Fe_3[Fe(CN)_6]_2$
Turpeth	Basic sulfate of mercury	$HgSO_4 \cdot 2HgO$
Tyrian purple	6,6'-dibromoindigotin, a dye of the ancient Mediterranean	$C_{16}H_8N_2O_2Br_2$
Uranic ochre	Uraconite, a yellow uranium oxide	U_2O_3

Uranium I	^{238}U	
Uranium II	^{234}U, $\lambda = 2.5 \cdot 10^5$ years	
Uranium X	$X_1 = {}^{234}Th$, = 24 days, $X_2 = {}^{234}Pa$	
Uranium yellow	Sodium uranate, a pigment used in glass and ceramics	Na_2UO_4
Uranivitriol	A uranium sulfate	
Urinous air	Ammonia	
Urinous salt	An ammonium salt; occasionally any alkaline salt.	
Vegetable alkali	Crude or purified potassium carbonate	K_2CO_3
Verdigris	Copper acetate	$Cu(C_2H_2O_2)_2 \cdot H_20$
Vermillion	Mercury sulfide, a red pigment	HgS
Victoria green	Triphenylmethane dye, acid-base indicator	$C_{23}H_{25}N_2Cl$
Vinegar	Dilute and impure acetic acid	CH_3COOH
Vitamin A	A fat-soluble vitamin derived from carotenes	$C_{20}H_{30}O$
Vitamin B	A group of water-soluble, heat labile compounds that typically serve as co-enzymes. They include many examples that contain amine groups (as in "vital amine").	
Vitamin B_1	Thiamin	$C_{12}H_{17}N_4OSCl$
Vitamin B_{12}	Cyanocobalamin	$C_{63}H_{90}CoN_{14}O_{14}P$
Vitamin B_2	Riboflavin	$C_{17}H_{20}N_4O_6$
Vitamin B_3	Niacin	$C_6H_5NO_2$
Vitamin B_6	Pyridoxin	$C_8H_{11}NO_3$
Vitamin B_c	Folic acid	$C_{19}H_{19}N_7O_6$
Vitamin C	Ascorbic acid	$C_6H_8O_6$
Vitamin D	This fat-soluble vitamin consists of steroid derivatives including ergocalciferol, $C_{28}H_{44}O$, and cholecalciferol, $C_{27}H_{44}O$	
Vitamin E	This vitamin occurs in four naturally occuring forms, called α-, β-, γ-, and δ-tocopherol. The α form, C29H50O2, has the greatest activity; the β- and γ-forms have one fewer methyl group, and the δ- form two fewer.	
Vitriol	A sulfate	
Vitriol	Sulfuric acid	H_2SO_4
Vitriolate of tartar	Potassium sulfate	K_2SO_4
Vitriolic acid	Sulfuric acid	H_2SO_4
Volatile alkali	Aqueous ammonia, NH_3	
Washing soda	Crystalline sodium carbonate	Na_2CO_3
Water glass	Hydrated sodium silicate	$Na_2Si_4O_9 \cdot xH_2O$

White arsenic	Arsenic trioxide	As_2O_3
White lead	Basic lead carbonate	$(PbCO_3)_2 \cdot Pb(OH)_2$
White precipitate	Insoluble white powder	$HgNH_2Cl$
White vitriol	Zinc sulfate	$ZnSO_4 \cdot 7H_2O$
Whitewash	Solution of quick lime or slaked lime used as a cheap substitute for paint.	...
Whiting	Powdered calcium carbonate	$CaCO_3$
Wolfram	Tungsten	W
Wood alcohol	Methyl alcohol	CH_3OH
Xylenol blue	1,4-dimethyl-5-hydroxybenzenesulfonphthalein, an acid-base indicator	
Xylol	Xylene	$C_6H_4(CH_3)_2$
Yellow arsenic	Arsenic sulfide	As_2S_3
Yellow ochre	Mixture of powdered iron oxide and clay	
Yellow precipitate	Yellow mercury oxide	HgO
Yellow prussiate	Potassium ferricyanide	$K_3Fe(CN)_6 \cdot 3H_2O$
Yellow prussiate of potash	Potassium ferrocyanide	$K_4Fe(CN)_6 \cdot 3H_2O$
Zinc white	Zinc oxide	ZnO