Chemical names from https://someonesdad1.github.io/hobbyutil/project_list.html 18 Dec 2009

This list has been constructed from many sources over the past few decades, so I can't attribute each item. Beware of lists from the Internet, as there is a lot of incestuous copying and promolgation of errors. But you already know that...

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 Acid of apples Acid of lemon Acid of milk Acid of salt Acid of sugar	Formic acid Malic acid Citric acid Lactic acid Hydrochloric acid Oxalic acid	$\begin{array}{l} \text{HCI} \\ \text{H}_2\text{C}_2\text{O}_4\cdot\text{H}_2\text{0} \end{array}$
Acid potassium sulphate	Potassium bisulphate	KHSO ₄
Acidum saltus Ackey	Hydrochloric acid Nitric acid	HCI HNO ₃
Aer urinosa Alcali volatil	Ammonia Ammonium hydroxide	NH ₄ OH
Alcohol sulphuris	Carbon disulfide	cs ₂
Alcohol, grain	Ethyl alcohol (ethanol)	С ₂ Н ₅ ОН
Alcohol, wood	Methyl alcohol (methanol)	CH ₃ OH
Alembroth, salt of		$Hg_2(NH_4)_2CI_4\cdot H_2O$
Algaroth, powder of Alizarin	1,2-dihydroxyanthraquinone, a red dye	SbOCI C ₁₄ H ₈ O 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	${\rm NaC_{14}H_{7}O_{7}S}$
Alizarin yellow	Sodium p -nitraniline salicylate, an acid-base indicator	$C_{13}H_{10}NO_5$
Alum	Aluminum potassium sulfate	$AIK(SO_4)_2 \cdot 12H_2O$
Alumina	Aluminum oxide	Al_2O_3
Alundum	Fused aluminum oxide	Al_2O_3

Ammonia	Ammonium hydroxide	NH ₄ OH
Aniline purple	Mauveine, the first aniline dye	$C_{27}H_{24}N_4$
Anthracene blue	A dihydroxyanthraquinone quinoline	$C_{17}H_{9}O_{4}$
Antichlor	Sodium thiosulfate	$Na_2S_2O_3 \cdot 5H_2O$
Antimony black	Antimony trisulfide	Sb_2S_3
Antimony bloom	Antimony oxide	${\sf Sb_2O_3}$
Antimony flowers	antimony oxysulphide	$Sb_2S_3 + Sb_2O_3$
Antimony glance	Stibnite, antimony sulfide mineral	$\mathrm{Sb}_2\mathrm{S}_3$
Antimony ochre	Stibiconite, an antimony mineral	$\mathrm{Sb}_2\mathrm{O}_3\mathrm{(OH)}_2$
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 ₄ OH + H ₂ 0
Aqua fortis	Nitric acid	HNO ₃
Aqua regia	Nitric & hydrochloric acid	HNO ₃ + HCI
Aqua vitae	Aqueous ethanol	с ₂ н ₅ он
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	$\mathrm{Mg_3Si_2O_7\cdot 2H_2O}$
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 Barium white	Impure sodium carbonate Barium sulfate	$BaSO_4$
Barium white	Barium sulfate	BaSO ₄
Baryta	Barium oxide	ВаО
Bauxite	Impure aluminum oxide	Al_2O_3
Benzal green	Triphenylmethane dye, acid-base indicator	$C_{23}H_{25}N_2CI$

Benzine Benzol	Ligroin or petroleum ether; sometimes benzene Benzene	С ₆ Н 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)	${\rm MgSO_4\cdot 7H_2O}$
Bitter salt	Magnesium sulphate	MgSO·7H ₂ O
Black ash Black ash	Impure sodium carbonate mixed with unburnt carbon Crude form of sodium carbonate	Na ₂ CO ₃
Black lead	Graphite	С
Black oxide of copper	Cupric oxide	CuO
Black oxide of mercury	Mercurous oxide	Hg ₂ O
Black precipitate	A black powder	$\mathrm{Hg_2O}\cdot\mathrm{Hg_2NH_2NO_3}$
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(OCI) ₂ .	
Bleaching powder	Calcium hypochlorite	CaOCl ₂
Blue copperas	Copper sulfate	CuSO ₄ ·5H ₂ O
Blue lead	Lead sulfate	PbSO ₄
Blue salts	Nickel sulfate	$NiSO_4 \cdot 7H_2O$
Blue stone	Copper sulfate	$\text{CuSO}_4 \cdot \text{5H}_2 \text{O}$
Blue vitriol	Copper sulfate	$\text{CuSO}_4 \cdot \text{5H}_2 \text{O}$
Bogore	Bog iron ore	2Fe ₂ O ₃ ·3H ₂ O
Bone ash	Impure calcium carbonate	CaCO ₃ + ?
Bone black Boracic acid	Impure charcoal from bones and blood Boric acid	H ₃ BO ₃
Borax	Sodium borate	Na ₂ B ₄ O ₇ ·10H ₂ O
Bremen blue Brimstone Brine	Copper carbonate Sulfur Strong NaCl solution	S NaCl + H ₂ O
Brown ochre	Bog iron ore	2Fe ₂ O ₃ ·3H ₂ O
Brunswick green	Copper oxychloride or copper carbonate	$\text{CuOCl} \cdot \text{Cu(OH)}_2$
Dianomon groun	Soppor oxyonionide or copper carbonate	54551 64(011 <i>)</i> 2

Burnt alum Burnt lime	Anhydrous potassium aluminum sulfate 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 ₂ O
Butter of X Butter of zinc	Chloride or trichloride of X Zinc chloride + 1/4 its weight in water	 ZnCl ₂ + H ₂ O
Calcareous earth Caliche	Calcium oxide Impure sodium nitrate	CaO NaNO ₃
Calomel	Mercurous chloride	Hg_2Cl_2
Carbolic acid	Phenol	С ₆ Н ₅ ОН
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 ·2PbO
Caustic earth	Calcium hydroxide	Ca(OH) ₂
Caustic lime	Calcium hydroxide	Ca(OH) ₂
Caustic potash Caustic soda Caustic vegetable alkali	Potassium hydroxide Potassium hydroxide Potassium hydroxide	KOH KOH KOH
Ceruse	Lead carbonate	$2PbCO_3 \cdot Pb(OH)_2$
Chalk	Calcium carbonate	CaCO ₃
Chamber crystals	Nitrosyl sulfate	NO∙HSO ₄
Chile nitre	Sodium nitrate	NaNO ₃
Chile saltpeter	Sodium nitrate	NaNO ₃
Chinese red	Basic lead chromate	PbCrO ₄
Chinese white Chloride of lime	Zinc oxide Calcium hypochlorite	ZnO Ca(ClO) ₂
Chloride of soda Chlorinated lime Chloroform	Sodium hypochlorite Bleaching powder Trichloromethane	NaOCI CHCl ₃
Chrome alum	Chromium potassium sulfate	CrK(SO ₄) ₃ ·12H ₂ O
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 Cobalt blue	Mercury sulfide, a red pigment A pigment containing cobalt oxide, CoO, zinc oxide, Zn, and chalcedony, an amorphous quartz, SiO ₂	HgS
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	$K_3Co(NO_2)_6\cdotxH_2O$
Colcothar	Iron oxide (Paris red)	Fe_2O_3
Columbium Concrete volatile alkali	Niobium Ammonium carbonate	$^{\rm Nb}_{\rm (NH_4)_2CO_3}$
Congo blue	Blue dye	${\rm C_{17}H_{12}N_3O_7S_2Na_2}$
Congo red	Red dye	$C_{32}H_{22}N_{6}O_{6}S_{2}Na_{2}$
Congo yellow	Orange-red dye	$C_{24}H_{18}O_{4}N_{5}SNa$
Copperas	Ferrous sulfate	$FeSO_4 \cdot 7H_2 O$
Corrosive sublimate	Mercuric chloride	${\rm HgCl}_2$
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	<i>m</i> -cresolsulfonphthalein, acid-base indicator	$C_{21}H_{18}O_{5}S$
Cresol red	o-cresolsulfonphthalein, acid-base indicator	$c_{21}^{}H_{18}^{}O_{5}^{}S$
Crocus Crocus of antimony Crocus of copper	A yellow or reddish powdered calx (oxide) Impure antimony oxysulfide Cuprous oxide	Cu ₂ O
Crocus of iron Crocus of lead Crocus powder	Iron sesquioxide or peroxide Red lead Ferric oxide	Fe ₂ O ₃
Crystal carbonate	Sodium carbonate	Na ₂ CO ₃
Cyanocobalamin	Vitamin B ₁₂	C ₆₃ H ₉₀ CoN ₁₄ O ₁₄ P
DDT	Dichlorodiphenyltrichloroethane	(C ₆ H)*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	С

Diuretic salt	Potassium acetate	KC_2H_3O
Dry ice	Solid carbon dioxide	co_2
Dutch liquid	Ethylene dichloride	CH ₂ CI*CH ₂ CI
Dutch oil	Ethylene chloride	$C_2H_4Cl_2$
Dydymium Earth Emery powder	Mixture of Pr and Nd A metal oxide Impure aluminum oxide	Al_2O_3
Epsom salts	Magnesium sulfate	$MgSO_4 \cdot 7H_2O$
Ethanol	Ethyl alcohol	C ₂ H ₅ OH
Ether	Ethyl ether	$(C_2H_5)_2O$
Ethiops mineral	Mercury sulfide	Hg ₂ S
Ethyl gas	Leaded gasoline (i.e., includes tetraethyllead $(C_2H_5)_4Pb$ as an additive)	-
Everitt's salt	Potassium ferrous ferrocyanide	K_2 Fe[Fe(CN) $_6$]
Farina	Starch	Complex carbohydrate
Ferro prussiate	Potassium ferricyanide	K ₃ Fe(CN) ₆
Ferrum Fixed vegetable alkali	Iron Crude or purified potassium carbonate	Fe K ₂ CO ₃
Fixed white	Barium sulfate	BaSO ₄
Flores Martes	Anhydrous ferric chloride	Fe ₂ Cl ₆
Flores martiales	Ferriammonium chloride	$NH_{4}FeCl_{4}$
Flowers of sulphur Flowers of X Fluor, fluorspar	Sulfur Oxide of X (X is usually a metal) Calcium fluoride	S CaF ₂
Fluorspar	Natural calcium fluoride	CaF ₂
Folic acid	Vitamin B _c	$C_{19}H_{19}N_{7}O_{6}$
Formalin Fossil alkali French chalk	Formaldehyde Sodium carbonate Natural magnesium silicate	HCOH $H_{2}Mg_{3}(SiO_{3})_{4}$
French vergidris	Basic copper acetate	$Cu(C_2H_2O_2)_2 \cdot H_2O$
Fulminating silver	Silver nitride	Ag ₃ N
Galena Glacial Glance Glauber's salt	Natural lead sulfide Glass-like, crystalized Mineral with a glassy appearance Sodium sulfate	PbS Na ₂ SO ₄ ·10H ₂ O
Glucinium or glucinum		Be
Grain alcohol	Ethyl alcohol	С ₂ Н ₅ ОН
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 ·7H ₂ O
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 ₂ O·Hg ₂ NH ₂ NO ₃
Hard oil Heavy spar	Boiled linseed oil Barium sulfate	 BaSO ₄
Hepar Hepatic air	Sulfide Hydrogen sulfide	H ₂ S
Hepatic air	Hydrogen sulfide	H ₂ S
Homberg's salt	Boric acid	B(OH) ₃
Horn silver Hydrargyrum Hydrated lime	Native silver chloride Mercury Calcium hydroxide	AgCl Hg Ca(OH) ₂
Hydrocyanic acid Hypo	Hydrogen cyanide Sodium thiosulfate	HCN Na ₂ S ₂ O ₃ ·5H ₂ O
Indian red	Ferric oxide	Fe_2O_3
Iron perchloride	Ferric chloride	FeCl ₃ ·6H ₂ O
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 ·4H ₂ O
Isinglass Javelle water	Agar-agar gelatin Originally potassium hypochlorite solution, now usually sodium hypochlorite	 Originally KOCl + H ₂ O, now NaOCl + H ₂ O
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	NaOCI + H ₂ O
Lampblack Lapis causticus	Crude form of carbon, charcoal Fused sodium or potassium hydroxide	С

Lapis imperialis	Silver nitrate	AgNO ₃
Lapis lunarius	Fused silver nitrate	AgNO ₃
Laughing gas	Nitrous oxide	N_2O
Lead black Lead peroxide	Graphite Lead dioxide	C PbO ₂
Lead protoxide Lead white	Lead oxide Lead carbonate	PbO 2PbCO ₃ ·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 Lime, slaked	Calcium oxide Calcium hydroxide	CaO Ca(OH) ₂
Lime, unslaked Limewater	Calcium oxide Calcium hydroxide solution	CaO Ca(OH) ₂ + H ₂ O
Liquor ammonia	Ammonium hydroxide solution	NH ₄ OH
Litharge Lithopone	Lead oxide Zinc sulfide + barium sulfate	PbO ZnS + BaSO ₄
Liver of sulphur	Melted potassium carbonate + sulphur	K ₂ CO ₃ + S
Lunar caustic	Silver nitrate	AgNO ₃
Lye Magnesia Magnesia alba levis	Potassium hydroxide solution Magnesium oxide Magnesium carbonate and magnesium oxide	KOH MgO 4 MgCO $_{3}$ ·Mg(OH) $_{2}$ ·5H $_{2}$ O
Magnesia nigra	Pyrolusite, natural manganese dioxide	MnO_2
Magnesite	Magnesium carbonate	MgCO ₃
Magnus salt	Tetrammineplatinum tetrachloroplatinate	Pt(NH ₃) ₄ PtCl 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 ${\rm MnSiO_3}$ or rhodochrosite ${\rm MnCO_3}$	
Marble	Calcium carbonate	CaCO ₃
Marignac salt	Potassium tin sulfate	$K_2Sn(SO_4)_2$
Marine acid Marine alkali Marsh gas	Hydrochloric acid Sodium carbonate Methane	HCI
Martius yellow	The calcium salt of naphthalene yellow	CH ₄
Massicot Mercurial nitre	Lead oxide (yellow) Mercuric nitrate	PbO Hg(NO ₃) ₂
		5 4

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 ₃ OH
Methyl green	A triphyenylmethane dye and acid-base indicator	$C_{25}H_{30}N_3CI$
Methyl orange	Sodium p -dimethylaminobenzenesulfonate, an acidbase 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 ₃ OH
Methylene blue	3,9-bisdimethylaminophenazothionium chloride trihydrate, an acid-base indicator	$C_{16}H_{18}N_3SCI\text{-}3H_2O$
Microcosmic salt	Sodium ammonium phosphate	NaNH ₄ HPO ₄ ·4H ₂ O
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 Millon's base	Precipitated sulfur Formed from a solution of mercuric oxide in ammonium chloride	s (HOHg) ₂ NH ₂ OH
Mineral alkali, common Mineral dye blue	Hydrated sodium carbonate 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 Mineral dye purple	Copper carbonate Reddish iron oxide pigment	
Mineral dye white	Hydrated calcium sulfate	
Mineral dye yellow	Lead oxychloride	PbCl ₂ ·2PbO
Minium	Red lead oxide	Pb_3O_4
Mohr salt	Ferrous ammonium sulfate	$(\mathrm{NH_4})_2\mathrm{Fe}(\mathrm{SO_4})_2\cdot 6\mathrm{H_2O}$
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 Muriatic acid Muriatic ether	Chloride of X Hydrochloric acid Ethyl chloride	 HCl C ₂ H ₅ Cl
Mustard gas	A di(chloroethyl)sulfide	(CICH ₂ CH ₂) ₂ S
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 ₂ CO ₃
Natural gas	Mostly methane	CH_4
Neutral red	Dimethyldiaminotoluphenazine hydrochloride, an acid-base indicator	31.4
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 Nitrate of silver	Radon Silver nitrate	Rn 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)	$c_4 H_9 coc_5 H_{11}$
Oil of bananas	n-pentyl acetate	$CH_3COC_5H_{11}$
Oil of bitter almonds	Benzaldehyde	С ₆ Н ₅ СНО
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	KCIO ₃
Oxymuriatic acid	Chlorine	Cl_2
Paris blue	Ferric ferrocyanide,	$\mathrm{Fe_7(CN)_{18}(H_2O)_x}$ where 14
Paris green	Copper aceto-arsenite	<= x <= 16
i ans green		$3Cu(AsO_2)_2 \cdot Cu(C_2H_3O_2)_2$
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·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 ₃ Cl
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	$c_{19}^{H}H_{14}^{O}S$
Phosgene	Carbonyl chloride	COCI 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	${\rm Na(SbO)C_4H_4O_6}$
Plumbago	A lead ore, including lead oxide (litharge) or lead sulfide (galena); or graphite	
Plumbic ochre	Brown lead oxide	PbO_2
Plumbum Plumbum album	Lead Lead carbonate	Pb 2PbCO ₃ ·Pb(OH) ₂
Plumbum candidum	Lead carbonate	$2PbCO_3 \cdot Pb(OH)_2$
Pompholix Potash	Crude zinc oxide Potassium carbonate	ZnO K ₂ CO ₃
Potassa Precipitated chalk	Potassium hydroxide Calcium carbonate	KOH 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,	$Fe_7(CN)_{18}(H_2O)_x$ where 14 <= x <= 16
	$K_4Fe(CN)_6$	
Prussic acid Purple crystals	Hydrocyanic acid Potassium permanganate	HCN 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 ₃ OH
Pyroxylic spirit	Methanol	CH ₃ OH
Quicklime Quicksilver Racemic acid	Calcium oxide Mercury An optically inactive form of tartaric acid consisting of equal quantities of optical isomers	CaO Hg
Radium A	218 Po, $\lambda = 3$ minutes	
Radium C	²¹⁴ Bi, $\lambda = 20$ minutes; ²¹⁴ Po (C'); C ₂ 210Tl, $\lambda = 1.3$	
Radium D	minutes 210pt 21	
Radium E	210 Pb, $\lambda = 21$ years 210 Bi	
	21, R1	

Radium F

210Po, $\lambda = 140$ 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	$(\mathrm{CH_3CO_2})_2\mathrm{AIOH}$
Red ochre	Hematite	Fe_2O_3
Red orpiment	Arsenic sulfide	As_2S_2
Red oxide of copper	Cuprous oxide	Cu ₂ O
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	${\sf Na_4Fe(CN)}_6$
Red vitriol	Cobalt sulfate	CoSO ₄ ·7H ₂ O
Regulus Reinecke's acid	Antimony Tetrathiocyanodiammonochromic acid	Sb HCr(NH ₃) ₂ (SCN) ₄
D: 1.1.11	An ammonium palt of Dainaskala asid	5 2 1
Reinecke's salt	An ammonium salt of Reinecke's acid	$NH_4[Cr(NH_3)_2(SCN)_4]\cdot H_2O$
Refinecke's salt	A fat-soluble vitamin derived from carotenes	$\text{NH}_{4}[\text{Cr}(\text{NH}_{3})_{2}(\text{SCN})_{4}]\cdot\text{H}_{2}\text{O}$ $\text{C}_{20}\text{H}_{30}\text{O}$
Retinol	A fat-soluble vitamin derived from carotenes	$C_{20}H_{30}O$
Retinol Riboflavin	A fat-soluble vitamin derived from carotenes $ \label{eq:VitaminB2} \mbox{Vitamin B}_2 $	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \\ {\rm CuSO_4\cdot 5H_2O} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \\ {\rm CuSO_4\cdot 5H_2O} \\ {\rm CoSO_4\cdot 7H_2O} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \\ {\rm CuSO_4\cdot 5H_2O} \\ {\rm CoSO_4\cdot 7H_2O} \\ {\rm Fe_2O_3} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol Rouge	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate Ferric oxide	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \\ {\rm CuSO_4\cdot 5H_2O} \\ {\rm CoSO_4\cdot 7H_2O} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol Rouge Rouge, jeweler's	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate Ferric oxide Ferric oxide	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \\ {\rm CuSO_4\cdot 5H_2O} \\ {\rm CoSO_4\cdot 7H_2O} \\ {\rm Fe_2O_3} \\ {\rm Fe_2O_3} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol Rouge Rouge, jeweler's Rough nitre	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate Ferric oxide Ferric oxide Magnesium chloride	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \\ {\rm CuSO_4\cdot 5H_2O} \\ {\rm CoSO_4\cdot 7H_2O} \\ {\rm Fe_2O_3} \\ {\rm Fe_2O_3} \\ {\rm MgCl_2} \\ {\rm CH_3CHOHCH_3} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol Rouge Rouge, jeweler's Rough nitre Rubbing alcohol	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate Ferric oxide Ferric oxide Magnesium chloride Isopropyl alcohol	$\begin{array}{c} {\rm C_{20}H_{30}O} \\ {\rm C_{17}H_{20}N_4O_6} \\ {\rm KNaC_4H_4O_6\cdot 4H_2O} \\ {\rm NaCl} \\ {\rm CuSO_4\cdot 5H_2O} \\ {\rm CoSO_4\cdot 7H_2O} \\ {\rm Fe_2O_3} \\ {\rm Fe_2O_3} \\ {\rm MgCl_2} \end{array}$
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol Rouge Rouge, jeweler's Rough nitre Rubbing alcohol Ruby	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate Ferric oxide Ferric oxide Magnesium chloride Isopropyl alcohol Red corundum	$C_{20}H_{30}O$ $C_{17}H_{20}N_4O_6$ $KNaC_4H_4O_6\cdot 4H_2O$ $NaCl$ $CuSO_4\cdot 5H_2O$ $CoSO_4\cdot 7H_2O$ Fe_2O_3 Fe_2O_3 $MgCl_2$ $CH_3CHOHCH_3$ Al_2O_3 As_2S_2 ZnS
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol Rouge Rouge, jeweler's Rough nitre Rubbing alcohol Ruby Ruby arsenic Ruby blende	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate Ferric oxide Ferric oxide Magnesium chloride Isopropyl alcohol Red corundum Arsenic sulfide Red sphalerite (zinc sulfide)	$C_{20}H_{30}O$ $C_{17}H_{20}N_4O_6$ $KNaC_4H_4O_6\cdot 4H_2O$ $NaCl$ $CuSO_4\cdot 5H_2O$ $CoSO_4\cdot 7H_2O$ Fe_2O_3 Fe_2O_3 $MgCl_2$ $CH_3CHOHCH_3$ Al_2O_3 As_2S_2 ZnS Cu_2O
Retinol Riboflavin Rochelle salt Rock salt Roman vitriol Rose vitriol Rouge Rouge, jeweler's Rough nitre Rubbing alcohol Ruby Ruby arsenic Ruby blende Ruby copper	A fat-soluble vitamin derived from carotenes Vitamin B ₂ Potassium sodium tartrate Sodium chloride Copper sulfate Cobalt sulfate Ferric oxide Ferric oxide Magnesium chloride Isopropyl alcohol Red corundum Arsenic sulfide Red sphalerite (zinc sulfide) Cuprite, copper oxide	$C_{20}H_{30}O$ $C_{17}H_{20}N_4O_6$ $KNaC_4H_4O_6\cdot 4H_2O$ $NaCl$ $CuSO_4\cdot 5H_2O$ $CoSO_4\cdot 7H_2O$ Fe_2O_3 Fe_2O_3 $MgCl_2$ $CH_3CHOHCH_3$ Al_2O_3 As_2S_2 ZnS

 $\mathrm{KHC}_2\mathrm{O}_4$

Saccharum saturni Sugar of lead; lead acetate
Sal acetosella Potassium hydrogen oxalate

Sal aeratus	Potassium hydrogen carbonate	кнсо ₃
Sal albus Sal alembroth	Borax Insoluble white powder	HgNH ₂ Cl
Sal ammoniac	Ammonium chloride	NH ₄ Cl
Sal armoniack	Ammonium chloride	NH ₄ CI
Sal commune Sal de duobus	Sodium chloride Potassium sulfate	NaCl K ₂ SO ₄
Sal enixum Sal fossile Sal marinum Sal nitri Sal nitrum Sal sapientiae	Glauber's salt Sodium chloride Sodium chloride Nitre Nitre Mercury ammonium chloride	NaCl NaCl HgNH ₂ Cl
Sal soda	Crystalline sodium carbonate	NaHCO ₃
Sal spaientiae	Insoluble white powder	HgNH ₂ Cl
Sal volatile	Ammonium carbonate	$(NH_4)_2CO_3$
Saleratus	Potassium hydrogen carbonate or sodium	KHCO ₃ or NaHCO ₃
Salt Salt cake	bicarbonate Sodium chloride Impure sodium sulfate	NaCl Na ₂ SO ₄
Salt of hartshorn	Ammonium carbonate	$(NH_4)_2CO_3$
Salt of lemon	Potassium hydrogen oxalate	KHC ₂ O ₄
Salt of tartar	Solid potassium carbonate	K_2CO_3
Salt of vitriol	Zinc sulfate	${\sf ZnSO_4\cdot 7H_2O}$
Salt of wormwood	Potassium carbonate	$\kappa_2^{\text{CO}_3}$
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	${ m Na_3SbS_4\cdot 9H_2O}$
Schšllkopf's acid Seignette's salt	One of 1-naphthol-4,8-disulfonic acid, 1-naphthylamine-4,8-disulfonic acid, and 1-naphthylamine-8-sulfonic acid Rochelle salt	
Silica	Silicon dioxide	SiO ₂

Siliceous earth	Silicon dioxide	SiO ₂
Silver glance	Argentite, silver sulfide	Ag ₂ S
Slaked lime	Calcium hydroxide	Ca(OH) ₂
Soapstone	Impure magnesium silicate	$H_2Mg_3(SiO_3)_4$
Soda	Sodium carbonate	Na ₂ CO ₃
Soda ash	Dry sodium carbonate	Na ₂ CO ₃
Soluble glass	Hydrated sodium silicate	Na ₂ Si ₄ O ₉ ·xH ₂ O
Sorrel salt	Potassium hydrogen oxalate	$\mathrm{KHC}_2\mathrm{O}_4$
Spanish green Spanish white	Copper acetate (verdigris) 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 ₂ SO ₄
Spirit of colonial	Methanol	CH ₃ OH
Spirit of Columbian	Methanol	CH ₃ OH
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	HCI
Spirit of vitriol	Sulfuric acid	H_2SO_4
Spirit of wine	Concentrated aqueous ethanol	$C_2H_5OH + H_2O$
Spirit of wood	Methanol	CH ₃ OH
Spirits of salt Spirits of wine	Hydrochloric acid Ethyl alcohol	HCI
Spiritus saltus	•	C ₂ H ₅ OH HCI
Spiritus vini	Hydrochloric acid Concentrated aqueous ethanol	C ₂ H ₅ OH + H ₂ O
Stannum glaciale	Bismuth (literally glacial tin)	Bi
Sugar of lead	Lead acetate	$Pb(C_2H_3O_2)_2\!\cdot\! 3H_2O$
Sulfur per campanum	Sulfuric acid	H_2SO_4
Sulfuric ether Sulfuric ether	Diethyl ether Ethyl ether	(C ₂ H ₅) ₂ O
Sulphovinic acid	Ethyl hydrogen sulfate	$C_2H_5\cdot HSO_4$
Sulphuret Sulphuretted Sulphuretted hydrogen	Sulfide Combined or impregnated with sulfur Hydrogen sulfide	H ₂ S
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 Talc	Potassium chloride Magnesium silicate	$\begin{array}{l} \mathrm{KCI} \\ \mathrm{H_2Mg_3(SiO_3)_4} \end{array}$
Tartar	Potassium hydrogen tartrate	$\mathrm{KHC_4H_4O_6}$
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 Telluric ochre	Bismuth Yellow tellurium oxide	Bi TeO ₂
Terra ponderosa Terra ponderosa aerata	Barium oxide Barium carbonate	BaO BaCO ₃
Tetrachloromethane	Carbon tetrachloride	CCI ₄
Thénard's blue	Blue cobalt aluminate	Co(AlO ₂) ₂
Thiamin	Also thiamine, vitamin B ₁	C ₁₂ H ₁₇ N ₄ OSCI
Thorium A	216 Po, $\lambda = 150$ ms	, .
Thorium C	212Bi, λ = 61 minutes; C' is 212 Po, λ = 300 ns.	
Thorium D	208 T1, $\lambda = 3$ 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 ₆ H ₅ CH 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 ·2HgO
Turnbull's blue	Ferroferricyanide	$Fe_3[Fe(CN)_6]_2$
Turpeth	Basic sulfate of mercury	HgSO ₄ ·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	$234_{\rm U}$, $\lambda = 2.5 \cdot 10^5$ 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 Urinous salt	Ammonia 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	$C_{23}H_{25}N_2CI$
Vinegar	Dilute and impure acetic acid	CH ₃ COOH
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	$C_{12}H_{17}N_4OSCI$
Vitamin B ₁₂	Cyanocobalamin	${\rm C_{63}H_{90}CoN_{14}O_{14}P}$
Vitamin B ₂	Riboflavin	$C_{17}H_{20}N_4O_6$
Vitamin B ₃	Niacin	${\rm C_6H_5NO_2}$
Vitamin B ₆	Pyridoxin	$C_8H_{11}NO_3$
Vitamin B _c	Folic acid	${\rm C}_{19}{\rm H}_{19}{\rm N}_7{\rm O}_6$
Vitamin C	Ascorbic acid	$C_6H_8O_6$
Vitamin D	This fat-soluble vitamin consists of steroid derivatives including ergocalciferol, ${\rm C_{28}H_{44}O}$, and	3
	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	00
Vitriolate of touton	Sulfuric acid	H ₂ SO ₄
Vitriolate of tartar	Potassium sulfate	K ₂ SO ₄
Vitriolic acid	Sulfuric acid	H_2SO_4

Volatile alkali $\quad \text{Aqueous ammonia, NH}_3$

Washing soda	Crystalline sodium carbonate	Na_2CO_3
Water glass	Hydrated sodium silicate	${\sf Na}_2{\sf Si}_4{\sf O}_9{\cdot}{\sf xH}_2{\sf O}$
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 ₂ Cl
White vitriol	Zinc sulfate	$ZnSO_4 \cdot 7H_2 O$
Whitewash	Solution of quick lime or slaked lime used as a cheap substitute for paint.	
Whiting	Powdered calcium carbonate	CaCO ₃
Wolfram Wood alcohol	Tungsten Methyl alcohol	W CH ₃ OH
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 Yellow precipitate Yellow prussiate	Mixture of powdered iron oxide and clay Yellow mercury oxide Potassium ferricyanide	HgO K ₃ Fe(CN) ₆ ·3H ₂ O
Yellow prussiate of potash	Potassium ferrocyanide	$K_4 Fe(CN)_6 \cdot 3H_2 O$

ZnO

Zinc oxide

Yellow prussiate of potash

Zinc white