Alchemical Substances

A

Aes cyprium. Cyprian brass or copper.

Acetate A crystaline (or liquid) oily substance extracted from metals by means of acetic acid menstrum.

Aqua tofani. Arsenious oxide. Extremely poisonous. Used by Paracelsus.

Antimony. From latin 'antimonium' used by Constantinius Africanus (c. 1050) to refer to Stibnite.

Archaeus The secret inner matter of a substance.

B

Black Lion The caput mortum or black salt which cannot be purified.

Blue vitriol or bluestone. Cupric sulphate.

Brimstone (from German Brennstein 'burning stone'). Sulphur.

Butter of Antimony. White crystalline antimony trichloride. Made by Basil Valentine by distilling roasted stibnite with corrosive sublimate. Glauber later prepared it by dissolving stibnite in hot concentrated hydrochloric acid and distilling.

Butter of tin. Hydrated stannic chloride.

C

Cadmia, which was also called Tuttia or Tutty, was probably zinc carbonate.

Calamine. Zinc carbonate.

Calomel. Mercurous chloride. Purgative, made by subliming a mixture of mercuric chloride and metallic mercury, triturated in a mortar. This was heated in a iron pot and the crust of calomel formed on the lid was ground to powder and boiled with water to remove the very poisonous mercuric chloride.

Caustic marine alkali. Caustic soda. Sodium hydroxide. Made by adding lime to natron.

Caustic Soda Sodium Hydroxide

Caustic volatile alkali. Ammonium hydroxide.

Caustic wood alkali. Caustic potash. Potassium hydroxide. Made by adding lime to potash.

Chalk. Calcium carbonate.

Chrome green. Chromic oxide.

Chrome orange. Mixture of chrome yellow and chrome red.

Chrome red. Basic lead chromate.

Chrome yellow. Lead chromate.

Cinnabar or Vermillion. Mercuric sulphide.

Cinnabar. Mercuric sulphide.

Cobalt. Named by the copper miners of the Hartz Mountains after the evil spirits the 'kobolds' which produced false copper ore.

Common salt. Sodium chloride.

Copper glance. Cuprous sulphide ore.

Corrosive sublimate. Mercuric chloride. first mentioned by the Arabian alchemist Geber, who prepared it by subliming mercury, calcined green vitriol, nitre and common salt.

Cuprite. Red cuprous oxide ore.

D

Dragon The philosophic Mercury-acid obtained from metals. Winged when volitile (pure) and without wings when crude or 'fixed'.

Dutch White. Mixture of one part of white lead to three of barium sulphate.

E

Eagle When referring to a substance it is Philosophic Mercury. (Also sublimation.)

F

Fire Stone A transmuting Stone made from Antimony.

Flores Oxide of a metal

Flowers of sulphur. light yellow crystalline powder, made by distilling sulphur.

Fulminating gold. Made by adding ammonia to the auric hydroxide formed by precipitation by potash from metallic gold dissolved in aqua regis. Highly explosive when dry.

Fulminating silver. Silver nitride, very explosive when dry. Made by dissolving silver oxide in ammonia.

G

Galena. Plumbic sulphide. Chief ore of lead.

Glass of Antimony. Impure antimony tetroxide, obtained by roasting stibnite. Used as a yellow pigment for glass and porcelain.

Glauber's Salt. Sodium sulphate.

Green Lion The green acetate of Lead in liquid or crystal form.

Green Dragon It is said that technically there isn't one. But it could be said to be a acetate of lead (which not always but occassionally forms from a green oil).

Green Vitriol. Ferrous sulphate.

Gypsum. Calcium sulphate.

H

Horn silver, argentum cornu. A glass like ore of silver chloride.

Ī

J

K

Kermes Properly the oil of Antimony in a crude state, precipitated out of an alkaline menstrum by neutralization through an acid. It is usually red-brown. The term might be used for any metallic oil precipitated out of a lye (alkaline solution) by neutralization.

Kerckringius menstrum (KM) A menstrum for extracting metalic oils made from ethyl alcohol which has been distilled off of oil of thrice sublimated Hartshorn (NH4CL).

King's Yellow. A mixture of orpiment with white arsenic.

L

Lead fume. Lead oxide obtained from the flues at lead smelters.

Limatura Martis Iron filings

Lion Any salt or fixed substance obtained from metals. The lion is said to be red, green or black according to the state of the fixed substance.

Litharge. Reddish-yellow crystalline form of lead monoxide, formed by fusing and powdering massicot.

Liver of sulphur. Complex of polysulphides of potassium, made by fusing potash and sulphur.

Lunar caustic, lapis infernalis. Silver nitrate.

Luna cornea. The soft colourless tough mass of silver chloride, made by heating horn silver till it forms a dark yellow liquid and then cooling. Described by Oswald Croll in 1608.

Lye An Alkaline menstrum. Usually a saturated solution of caustic soda.

M

Marcasite. Mineral form of Iron disulphide. Oxidises in moist air to green vitriol.

Massicot. Yellow powder form of lead monoxide.

Mercurius praecipitatus. Red mercuric oxide. Described by Geber. (Fr.Albertus says solid Mercury, amalgam)

Milk of sulphur (lac sulphuris). White colloidal sulphur. Geber made this by adding an acid to thion hudor.

Minium or Red Lead. Triplumbic tetroxide. Formed by roasting litharge in air. Scarlet crystalline powder.

Mosaic gold. Golden-yellow glistening scales of crystalline stannic sulphide, made by heating a mixture of tin filings, sulphur and salammoniac.

N

Naples yellow, or Cassel yellow. An oxychloride of lead, made by heating litharge with sal ammoniac.

Natron. Native sodium carbonate.

Nickel. Named by the copper miners of Westphalia the 'kupfer-nickel' or false copper.

Nitrum flammans. Ammonium nitrate made by Glauber.

0

Oil of Vitriol. Sulphuric acid made by distilling green vitriol.

Orpiment. Auri-pigmentum. Yellow ore of arsenic. Arsenic trisulphide.

P

Pearl white. Basic nitrate of bismuth, used by Lemery as a cosmetic.

Philosophers' Wool, or nix alba (white snow). Zinc oxide made by burning zinc in the air. Called Zinc White and used as a pigment.

Potash Potassium Carbonate. (The salts of vegetables, particularly grape vine)

Powder of Algaroth. A white powder of antimonious oxychloride, made by precipitation when a solution of butter of antimony in spirit of salt is poured into water.

Purple of Cassius. Made by Andreas Cassius in 1685 by precipitating a mixture of gold, stannous and stannic chlorides, with alkali. Used for colouring glass.

Pyrites. Mineral form of iron disulphide. Stable in air.

Q

Quicklime. Calcium oxide.

R

Realgar. red ore of arsenic. Arsenic disulphide.

Red Dragon In our Order it is the pure red oil of lead.

Red Lion In our system it is the red acetate of lead in crystal form.

Resin of copper. Cuprous chloride. Made by Robert Boyle in 1664 by heating copper with corrosive sublimate.

Rouge, Crocus, Colcothar. Red varieties of ferric oxide are formed by burning green vitriol in the air.

S

Sal Ammoniac. Ammonium Chloride. Described by Geber.

Sal volatile, Spirit of Hartshorn. Volatile alkali. Ammonium carbonate made from distilling bones, horns, etc.

Slaked lime. Calcium hydroxide.

Soda ash. Sodium carbonate formed by burning plants growing on the sea shore.

Spiritus fumans. Stannic chloride, discovered by Libavius in 1605, through distilling tin with corrosive sublimate.

Stibnite. Antimony trisulphide. Grey mineral ore of antimony.

Sugar of Lead. Lead acetate, Made by dissolving lead oxide in vinegar.

 ${f T}$

Thion hudor (Zosimus refers to this as the 'divine water' or 'the bile of the serpent'). A deep reddish-yellow liquid made by boiling flowers of sulphur with slaked lime.

Tin salt. Hydrated stannous chloride.

Turpeth mineral. A hydrolysed form of mercuric sulphate. Yellow crystalline powder, described by Basil Valentine.

Tutia Zinc Carbonate or Oxide

U

V

Venetian White. Mixture of equal parts of white lead and barium sulphate.

Verdigris. Cupric (copper) carbonate.

Vinegar Could refer to either acetic acid, acid distilled or fermented out of metals or minerals.

Viride Aeris Green of Copper (CopperChlate)

W

White arsenic. Arsenious oxide. Produced from arsenical soot from the roasting ovens, purified by sublimation.

White lead. Basic carbonate of lead. Used as a pigment.

White vitriol. Zinc Sulphate. Described by Basil Valentine. Made by lixiviating roasted zinc blend (zinc sulphide).

Winged Lion Sublimated salt for the PS.

Wood-ash or potash. Potassium carbonate made from the ashes of burnt wood.

Wismuth. Bismuth.

X

Y

Z

Zaffre. Impure cobalt arsenate, left after roasting cobalt ore.

Alchemical Equipment and Processes

Abstraction See sublimation or distillation.

Alembic A type of retort. According to M.Junis a type of gas expansion chamber which is attached in a distillation train or circulation between the boiling flask and the condenser. The 'head' which fits on a retort.

Athanor A furnace for heating flasks, etc.

B

Balneum Marie A Water bath.

C

Calcination To burn (heat) a solid with much heat. Usually performed to purify the solid.

Circulation To circulate a liquid over a solid in a sealed flask. See rotation.

Coagulate To thicken. Usually done by removing the liquid portion of a substance.

Cohobation Binding, mixing or joining together.

Condenser, water cooled A tube-like piece of glassware which has a double jacket one of which has water flowing through it. It is used to condense vapours into liquids.

Crucible A fire proof cup shaped item in which a substance may be heated extremely.

D

Desiccate To dry.

Digestion To macerate a substance in a solvent at a low temperature (usually 40°c)

Distillation To heat a substance in a flask (attached to a condenser) or retort so that its most volatile (pure) parts might be separated. The substance distilled is usually a liquid, but at times it might be a semi-solid substance (see sublimation).

Distillation train A heat proof flask attached to a water cooled condenser attached to a receiving flask. Used to distil liquids and solids. Modern type (see retort)

Dulcify To sweeten.

E

Eagle To sublimate or distil. (Also P.Mercury.)

F

Fix, to to make solid or stable.

Flask A glass container in which substances are stored or heated.

Fuse To melt.

G

H

Head, a/the The top and spout/condenser of a retort/flask.

Hermetically sealed Sealed air tight.

I

Imbibe To add, slowly, a liquid to a solid so that the solid (salt) absorbs the liquid.

J

K

L

Lembic See alembic

Leach (to leach) is to separate out pure salts from their mixture with impure salts by dissolving the whole in water. The pure salts can then be extracted by filtration and collected by evaporation.

 \mathbf{M}

Maceration To soak a substance in a liquid. The liquid is usually a solvent, in order to extract (separate) its components.

N

O

P

Pelicanization Circulation or rotation of a liquid over a solid. In classic times this was performed in a flask called a Pelican.

Precipitation To cause to be deposited at the bottom of a solution. Solids precipitate out of a liquid if they have not dissolved in that liquid.

Putrefaction To allow to rot. Also types of calcination, maceration and fermentation are considered to be putrefaction's. (See Golden Chain for detailed description)

Q

R

Receiver, flask The flask which is attached to the outlet of a condenser (or retort) that catches the distillate. (Also double-necked receiver.)

Retort A type of distillation device. A older type (without a water cooled condenser)

Reverbatory furnace a furnace heat to such an extent its roars with a load sound.

Wind furnace A furnace whose fire is aided by bellows or a wind funnel.

S

Solve To dissolve.

Soxhlet extractor A specialised piece of laboratory glassware used to extract tinctures (primarily) from substances. The benefit of this equipment is that it is quick (as opposed to a standard maceration, and does not need to be watched.

Sublimation Purification of a substance by distillation. Usually used to describe a dry distillation (distillation or vaporisation of a dry substance).

T

U

\mathbf{V}

 $\begin{tabular}{ll} Volatize \ {\tt To\ make\ volatile.}\ See\ distillation/sublimation \end{tabular}$

 $\label{eq:Vitrify} \textbf{Vitrify} \text{ To turn to glass.}$

Vacuum, create a To draw the air out of a closed distillation system in order to decrease the temperature, and the time, it will take to distil a substance.



X

Y

Z