

SPIRITUS DISTILLATI.

DISTILLED SPIRITS.

A L K O H O L.

TAKE of rectified Spirit of Wine one gallon.

Kali, made hot, one pound and an half.

Pure Kali one ounce by weight.

Mix the Spirit of Wine with the pure Kali, and afterwards add one pound of the hot Kali; shake them, and digest for twenty-four-hours. Pour off the Spirit, to which add the rest of the Kali, and distill in a water-bath. It is to be kept in a vessel well stopped.

The specific gravity of the Alkohol is to that of distilled water as 815 to 1,000.

SPIRITUS

SPIRITUS ÆTHERIS VITRIOLICI.

SPIRIT OF VITRIOLIC ÆTHER.

Take of rectified Spirit of Wine,
Vitriolic Acid, of each one pound.

Pour in, by a little at a time, the Acid to the Spirit, and mix them by shaking; then, from a retort, distill the Spirit of vitriolic Æther into a tubulated receiver, to which another recipient is fitted, — till sulphureous vapours begin to rise.

R E M A R K.

For the precautions necessary on mixing vitriolic acid with rectified vinous Spirits, and the instruments,—see Remark on *Oil of Wine*. A long range of adapters has not been found necessary.

The College of Edinburgh directs the distillation, from sand previously heated, into a receiver kept cool with snow; — the liquor to boil at first, to continue boiling till one fourth is drawn off, and then to raise the retort from the sand. On this ebullition of the mixture the success depends, (*Mor-*

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ris Med. Obs. & Inq. Vol. 2.) what comes over before ebullition being mere vinous spirit. *Bucquet, Règne végétal. tom. 2.*

The use of repeatedly committing to distillation the acid residuum, each time with a smaller quantity of Alkohol, see in a paper read by *Cadet* to *l'Acad. des Sc. Ann. 1774.*

ÆTHER VITRIOLICUS.

VITRIOLIC ÆTHER.

Take of the Spirit of vitriolic Æther two pounds.

Water of pure Kali one ounce by measure.

Shake them together, and distill, with a gentle heat, fourteen ounces by measure.

R E M A R K.

The use of the Caustic, or *pure* Kali, is to arrest any uncombined vitriolic Acid in the spirit of vitriolic Æther.

Æther, the most light, volatile, and inflammable, of all fluids, is with difficulty preserved from exhalation. It has been supposed not miscible with water,

ter, but *Count Lauragais* has shewn that ten parts of water dissolve one of *Æther*, and that the *Æther* which swims on the surface of water is the surplus, which the water cannot dissolve. It is therefore to be preserved, *without water*, in a phial, the stopper of which is ground exactly to its mouth, and a piece of bladder tied over it.

Given internally, it is a powerful tonic and anti-spasmodic in dyspepsy, hysteric spasms, &c. in doses, from 10 or 12 drops, to ʒi or more, on a lump of sugar; — or in syrup, diluted with water; — which should be swallowed quick, as it exhales with great celerity.—Externally it is applied in pains of the head, teeth, &c.

SPIRITUS ÆTHERIS NITROSI.

SPIRIT OF NITROUS ÆTHER.

Take of rectified Spirit of Wine two pints.

Nitrous Acid half a pound.

Mix by pouring in the acid to the spirit, and distill with a gentle heat one pound ten ounces.

REMARK.

R E M A R K.

The young operator will take care not to invert the order of mixing, lest a violent effervescence should disperse the matter in noxious red fumes. The mixture is made most safely under a chimney, by pouring the Acid, through a funnel with a long stem, bent as mentioned, (p. 112,) upon the Spirit, by small portions at a time, shaking the vessel as soon as the effervescence succeeding each addition ceases, before the fresh addition to be made. During the action of the fluids on each other, the vessel should be lightly covered; — if close stopped it will burst; — if left open, the more valuable parts will exhale. The method of mixing these fluids, used, by the very modest and ingenious Dr. Black, for nitrous Æther, whether proper for the preparation here intended or not, deserves to be mentioned as given, it is said, by Dr. Webster.

On two ounces of the strong acid, put into a phial, the Doctor pours, slowly and gradually, about an equal quantity of water; which, by being made to trickle down the sides of the phial, floats on the surface of the acid without mixing with it. He then adds, in the same cautious manner, three ounces of highly-rectified spirit of wine, which, in its turn, floats on the surface of the water.

ter. By these means the three fluids are kept separate on account of their specific gravities, and a stratum of water is interposed between the acid and the spirit. The phial is now set in a cool place; the acid gradually ascends, and the spirit descends through the water. *Lewis D. Edinb. Ed.*

The heat must be gentle, otherwise the vessels may be endangered, especially if a tubulated receiver is not employed. The mixing the product with Kali is not here necessary, as the College has ascertained the quantity to be drawn.

Spirit of nitrous Æther, the *Spiritus nitri dulcis* of the former Dispensatory, has been long in use, as an antispasmodic and diuretic, from twenty drops to a dram; and, with proper additions, diaphoretic.

SPIRITUS AMMONIÆ.

SPIRIT OF AMMONIA.

Take of Proof-spirit three pints by measure.

Sal Ammoniac four ounces by weight.

Pot-ash six ounces by weight.

Mix, and distill with a slow fire one pint and an half.

SPIRITUS

SPIRITUS AMMONIÆ FOETI-
DUS.

FOETID SPIRIT OF AMMONIA.

Take of Proof-spirit of Wine six pints.

Sal ammoniac one pound.

Aſa fœtida four ounces by weight.

Pot-aſh one pound and an half.

Mix, and diſtill with a flow fire five pints.

SPIRITUS ANISI COMPOSITUS.

COMPOUND SPIRIT OF ANISEED.

Take of Anife-feed,

Angelica-feed, of each, bruifed, half
a pound.

Proof-spirit of Wine one gallon.

Water ſufficient to prevent an em-
pyreuma.

Draw off one gallon.

SPIRITUS

SPIRITUS CARUI.

SPIRIT OF CARAWAY.

Take of Caraway-seeds, bruised, half a pound.

Proof-spirit of Wine one gallon.

Water sufficient to prevent an empyreuma.

Draw off one gallon.

SPIRITUS CINNAMOMI.

SPIRIT OF CINNAMON.

Take of bruised Cinnamon one pound.

Proof-spirit of Wine one gallon.

Water sufficient to prevent an empyreuma.

Draw off one gallon.

SPIRITUS JUNIPERI COMPOSITUS.

COMPOUND SPIRIT OF JUNIPER.

Take of Juniper-berries, bruised, one pound.

Caraway-seeds, bruised,
Sweet-fennel Seeds, of each one ounce and an half.

Proof-spirit of Wine one gallon.

Water sufficient to prevent an empyreuma.

Draw off one gallon.

SPIRITUS LAVENDULÆ.

SPIRIT OF LAVENDER.

Take of fresh Flowers of Lavender one pound and an half.

Proof-spirit of Wine one gallon.

Distill in a water-bath five pints.

SPIRITUS MENTHÆ PIPERITI-
DIS.

SPIRIT OF PEPPERMINT.

Take of the Herb Peppermint, dried, one
pound and an half.

Proof-spirit of Wine one gallon.

Water sufficient to prevent an em-
pyreuma.

Draw off one gallon.

SPIRITUS MENTHÆ SATIVÆ.

SPIRIT OF SPEAR-MINT.

Take of Spear-mint, dried, one pound and
an half.

Proof-spirit of Wine one gallon.

Water sufficient to prevent an em-
pyreuma.

Draw off one gallon.

SPIRITUS NUCIS MOSCHATÆ.

SPIRIT OF NUTMEG.

Take of bruised Nutmegs two ounces by weight.

Proof-spirit of Wine one gallon.

Water sufficient to prevent an empyreuma.

Draw off one gallon.

SPIRITUS PIMENTO.

SPIRIT OF PIMENTO, OF ALL-SPICE.

Take of All-spice, bruised, two ounces, by weight.

Proof-spirit of Wine one gallon.

Water sufficient to prevent an empyreuma.

Draw off one gallon.

SPIRITUS PULEGII.

SPIRIT OF PENNYROYAL.

Take of the Herb Pennyroyal, dried, one pound and an half.

Proof-

Proof-spirit of Wine one gallon.

Water sufficient to prevent an em-
pyreuma.

Draw off one gallon.

SPIRITUS RAPHANI COMPOSI-
SITUS.

COMPOUND SPIRIT OF HORSE-RADISH.

Take of fresh Horse-radish Root.

Dried Outer-rind of Seville Oran-
ges, of each two pounds.

Fresh Herb of Garden Scurvy-grass
four pounds.

Bruised Nutmegs one ounce by
weight.

Proof-spirit of Wine two gallons.

Water sufficient to prevent an em-
pyreuma.

Draw off two gallons.

SPIRITUS RORISMARINI.

SPIRIT OF ROSEMARY.

Take of fresh tops of Rosemary one pound
and an half.

Proof-spirit of Wine one gallon.

Distill in a water-bath five pints.

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