

animal tissues, and that it is, in fact, a very strong caustic when concentrated. There is strong caustic when concentrated. no doubt that many serious accidents have ! recently occurred from Surgeons not being aware of the properties of the remedy they use so freely. It must also be remembered ! that the direct application of carbolic acid, oven in a diluted form, to a granulating surface, will often delay cicatrization, and tend ! to promote suppuration, whereas, if it is em- | litherto been used, but has now generally ployed at a distance from the wound, it will | generally given place to this, which is the intend to diminish the formation of pus. There is moreover, a good deal of evidence to show that it tends to stimulate circulation through the smaller vessels, and thus gives rise to hamorrhagic oozing, from recently cut surfaces, preventing their primary adhesion. If, however, it be properly applied in a diluted form to the wound itself, and in some permanent and non-volatile form to the external parts, it will be found to have a powerful influence in retarding and diminishing suppuration.—Medical Times Guzette.

Observations on the Preparation of Strong Hydriodic Acid in Solution.—(Bulletin de la Société Chimique de Paris, 1869, No. 2.)— -Since this acid is becoming daily more and more used, Mr. Ferd. Vigier has studied the best mode of its preparation. It is well known that, for this purpose, a mixture of amorphous phosphorus (as first suggested by M. Personne), iodine and water is gently heated in a tubulated retort to the beak of which a glass tube has been soldered. Vigier has found that too often, in text and handbooks on chemistry, a wrong proportion of the ingredients to be used is given; and after some experiments on this subject, he finds that 1 part of phosphorus, 20 part of iodine, and 15 of water, are the best and only proper to ensure the taking place; these proportions correspond to the formula,

P+5I+5H0=P0 +5HI.

On the Cause of a Pink Colour in White Lead Corrosions .- It appears from the experiments of Mr. W. Baker (Phil. Mag., May, 1869), that not, as he formerly supposed, oxide of copper, but metallic silver, when present in lead in small quantity, is the cause of the pink colour now and then observed by white lead manufacturers. Analysis of 5.000 grs. of white corrosion gave. CuO, 0.0050; FeO, 0.0022 NiO, trace; Ag., 0.005 per cent. Pink corrosion. - CuO, 0.0000, FeO, 0.0022; NIO, 0.0013; Ag, 0.0058 per cent. A decid- (its antacid and substimulating powers 1 my ed colour, which is uniform throughout the be indicated, in connection with bitter tonics, mass of the corrosion, is obtained when the aperients, and aromatics. silver amounts to about 1½ ozs. per ton. The author ascertained that the silver is present in metallic, but of course finely divided, state.

To Bleach Muchlage of Gum Arabic.-This may easily be done by means of recently precipitated gelatinous alumma, which absorbs the color to itself, and leaves a clear solution. The pure white gum, in a state of powder may then be obtained by adding alcohol to the clear solution as long as any precipitate is formed. It may afterwards be dried in the sun or by a gentle heat. The hydrate of alumina, or the gelatmous alumina, may be easily procured by decomposing a solution of common alum, by an excess of carbonate of ammonia, and washing the precipitate thus larger portion of carbonic acid than any of obtained until all traces of soluble matters the alkaline bicarbonates, except that of lithia, are removed. In decolorizing mucilage, the which of course is unsuited of this use, but it alumina will generally answer for two operatities too scarce for that use a tions.—Jour. of Applied Chemistry.

of ammonia in its purest state is

the permanganate of potash in a slight excess position is NII4, 0×200 HO. Its taste is of dilute sulphuric acid, thickened with pipe saline, with a slightly ammoniacal impression clay, kaolin, or gelatinous silicate will remove, and is slowly volatile when exposed, and the colors produced by the aniline dyes, gradually evaporates with a slight odor of The small portion of oxide of maganese re-ammonia. It is soluble in 8 parts of water maining may easily be removed by a weak, at 60° F., and its aqueous solution has an bath of sulphurous acid Powdered zinc has vention of M. M. Dangeville and Gutin. - Ib.

New Method of Preparing Tartaric Acid .-The wine growers of this country, with their national characteristics, among which is that of being willing to turn everything to good hitherto waste product. After treating the The residue may then, after due washing skins with water and obtaining lees, two per with alcohol, be dried and used in the pulcent of sulphuric acid is added, and the mixture is boiled till the tartaric acid in combination is set at liberty. The action of the acid on the cellulose of the pulp forms a small quantity of glucose, or grape sugar. The liquor after fermentation, is treated with a solution of lime, and the latter subjected to the action of concentrated sulphuric acid, yields sulphite of lime and free tartane acid. The present high price of this article, (68 to 72 cents per pound) should be an extra inducement for parties who own large vine | yards, like those of California, to enter into this important branch of manufacture.—Ib.

To Remove Silver Status. - According to Grim, old silver stains can be bleached by chloride of copper. Wash the spot with hypo-sulphite of soda solution, and afterwards with water. For white stuff, a freshly prepared and very weak mixture of permanganate of potash and hydro-chloric acid, and washing out with hypo-sulphite of soda, is found to be sufficient. Both methods can be recommended on account of their dispensing with the poisonous cyanide of potassium usually employed for the purpose. -Ib.

On Bicarbouate of Ammouia as a Pharmacentical Preparation. - The writer for many it forward as deserving the attention of phy sicians in certain gastric affections wherein aperients, and aromatics.

It is well known to druggists that considerable quantities of this salt are formed on the sides of casks in which carbonate of ammonia is imported; and other portions are derived from the accidental or careless exposure of the sesquicarbonate, whereby an equivalent of monocarbonate is lost. Even in the shop bottles of dispensers, this is constantly going on to a limited extent. It has been usual to reserve the salt thus obtained for forming acetate, nitrace, or other ammoniacal salts, but it has rarely been used medicinally on its own merit. If it were sufficiently abundant, or could be prepared cheaply by a direct process, it would form, by all odds, the best yeast powder that can be offered, as it contains a it is too scarce for that use r. . Bicarbonate of ammonia in its purest state is a white salt,

Journal of Applied Chemistry. | isomorphous with bicarbonate of potassa, and To Discharge Antline Colors | A solution of possesses the same crystalline form. Its comalkaline reaction with syrup of violets (Liebig.) It is decomposed by the heat of boiling water, giving off carbolic acid; on this property its merits as a yeast powder partially depend. It is nearly insoluble in officinal alcohol, but soluble in (1) parts of diluted alcohol. It is most easily prepared in a small way by dissolving out the monocarbonate from the powdered sublimed sesquicarbonate account, may not be averse to adopting which consists of one equivalent of each salt) the following method for preparing tartaric by aid of alcohol (U. S. P. 85 per cont.,) in acid from the pressed skin of the grape, a which the bicarbonate is but slightly soluble. excess to a solution of the medicinal carbonate the bicarbonate precipitates in a crystal-

> When a saturated solution of sesquicar-bonate of ammonia in water is saturated with CO2, a quantity of the bicarbonate separates in crystals, owing to its less solu-

> The translucent lumps of sesquicarbonate of ammonia, when exposed, lose much weight and the residue is almost entirely bicarbon-This is the form in which it is most usually met with, and it may be obtained from that salt at any time; but it is too expensive, 100 parts of the officinal carbonate yielding only about 50 parts of the bicarbonate instead of 59, the theoretical yield. The relative proportions of the potash, soda, and ammonia salts to saturate one equivalent of SO3 are 100, 84 and 70, so that ten parts of bicarbonate ammonia nearly equal 14+ parts of the potash and 12 of soda salt .- Pharmacentical Journal (London).

Preparation of Pure Chloroform .- Chloroform, as sold. contains many impurities, which render it less efficacious than when pure. Many of these impurities resemble chloroyears past has used this salt as an antacid in form so closely as only to be recognized by place of bicarbonate of soda, and now brings a careful examination. M. Adrian proposes the following processes for the purpose of preparing a perfectly pure anæsthetic: It should first be shaken with water, to remove the alcohol, these washings being repeated several times, the complete absence of alcohol being proved by chronic acid and recently prepared bintrosulphide of iron, the former of which is not decomposed, and the latter remains insoluble when the chloroform is quite free from alcohol. The water also removes any aldehyde which may be present. When the chlorine and its derivatives have been for the most part removed by the previous processes, the chloroform is put in contact with a weak solution of carbonate of soda, which saturates the last traces of chlorine, as well as the hydrochloric and hypochlorous acids which may remain in solution. The water retained in solution by the chloroform is removed by digestion, for twenty-four or forty-eight hours, with chloride of calcium; and a considerable quantity of this salt must be used, and the process repeated at several intervals. After this purification the density and the boning point of the chloroform should be accurately determined. If the