

which, in view of the fact that it is often mixed with arsenic acid, is to be taken into consideration. To distinguish genuiue syrups from artificial ones, the following reactions are indicated: Both are discolored by chlorine, but in the latter a precipitate is produced similar to the oxide of iron formed by the addition of ammonia to one of its solutions. Sulphurous acid discolors both kinds of syrup. Sulphuric, nitric, and muriatic acids turn genuiue syrups brighter, while artificial ones assume a yellow orange color. Caustic potash discolors syrup colored with aniline, and turns genuine syrups a dirty green. The color of artificial syrups is not altered by an addition of carbonate of potash, of lead colors genuine syrups greenish, fuchsine syrups red. Adehyde colors fuchsine syrups red.-Journal of Applied Chemistry.

Preparation of Bromide of Sodium on the Large Scale.

M. Castelhaz. - The author, a manufacturing chemist, states, in the first place, that, according to the communications received by him from several physicians who have applied bromide of sodium in their practice instead of potassium, the efficacy of the former is far greater than that of the latter. As regards the preparation of this salt, the author says: The best plan is to prepare, first, bromide of ammonium, by causing bromine to bottles, in order thus to prevent the loss otherwise inevitably resulting from the volatilization of the products formed by the great heat disengaged on the bromine and ammo-nia uniting. The liquids, after saturation, are evaporated in a cast-iron retort, to which an earthenware receiver is fastened, wherein converted into bromide of sodium, by being mixed with pure carbonate of soda, and the application of sufficient heat to volatilize and sublime the carbonate of ammonia formed blood-Chemist & Druggist. by the reaction. This mode of preparation yields, after re-solution of the bromide in water, and evaporation similar to that used for chloride of sodium, perfectly pure and anhydrous bromide of sodium. - Comptes Rendus.

Detection of Logwood Colour in Wines by means of Neutral Acctate of Copper-

J. Lapeyrère—The author states that while studying some of the properties of the coloring principle of logwood (bois de Campêche), he found that the hematine it contains yields a sky-blue color with salts of copper. In if they are doctored with logwood, it is only necessary to place strips of good filtering paper after drying, use one of these slips to test the | white precipitate is obtained. wine suspected to be adulterated with logwood color, by dipping the paper into the wine; on removing it from that fluid, care should be taken to cause the adhering drop | (Fe2 2PO4) 220H3O.

of wine to flow backward and forward over the paper, which is next rapidly but carefully If the wine be as it naturally ought dried. to be, the colour exhibited after drying will be grey, or rose-red grayish; but if logwood is present, the tinge will be distinctly skyblue.—Journal de Pharmacie et de Chmic.

On the Presence of Manganese in Milk and in Blood.

Professor E, Follacci, after analysing soveral varities of human blood, differing in respect to the sex, age, and temperament of but genuine ones are turned green. Acetate the persons from whom they were derived, arrives at the conclusion that manganese is one of the essential constituents of the blood. The analysis of the milk of woman, the cow, the goat, and the ass, indicated that milk contains manganese even in greater proportion than the blood. The amount of manganese in these two fluids is not, therefore, in relation to the amount of iron which is found in greater proportion in the blood. The author describes in detail the process by which he detects the presence of manganese in the milk, of which the following is a brief account: -300 grammes of milk are evaporated to a pasty consistence, and then completely carbonized, and subsequently calcined in a platinum crucible. The ash is then exhausted with successive quantities of distilled water, fall drop by drop into dilute, but pure, liquid the extraction of all the soluble parts being ammonia contained in a series of Woulff's ascertained by the fact that nitrate of silver ascertained by the fact that nitrate of silver ceases to give a precipitate with the decanted fluid. The residue is then introduced into a test-tube, treated with a small quantity of mitric acid, and evaporated to dryness. The residue, after cooling, is treated with a small quantity of dilute nitric acid, and heated to 212°; binoxide of lead is then added, are collected the vapors of water, any excess and the mixture again beiled for about a of anmonia, and some bromide of ammo-innute. After subsidence, the purple colour aium, which is accidentally carried over of the fluid may be readily seen, due to the The bromide of ammonium thus obtained is presence of permanganic acid derived from the manganese contained in the milk. A similar method may be employed to determine the presence of manganese in the

Pyrophosphate of Iron and Soda-

The Journal d'Anters gives the following method for preparing this double salt :-

A solution of 6 parts of pyrophosphate of soda in 120 parts of water is mixed with another solution containing 13 parts of liquid perchloride of iron of 1.44 sp. gr. and 78 parts of water. The precipitate is washed, and then dissolved in a warm solution of 4 parts of anhydrous pyrophosphate of soda in 36 parts of water. The liquid is evaporated till order to apply this test to wines for detecting a pellicle forms, and allowed to crystallize if they are dectored with logwood, it is only. The crystals are dried at the ordinary temperature. Or the concentrated solution may Swedish being preferred, into an aqueous be precipitated by the addition of four times solution of neutral acetate of copper, and, tits volume of strong alcohol. A translucid

The ferric pyrophosphate of soda occurs in the form of yellowish transparent plates. Its composition is stated to be (Nn₄ P₂ O₇) 3

Miscellaneous, &c.

Novel Application of Autline Colours.

The Chemical News relates the following. incident: Some few weeks ago, Madame A W. Hofmann gave a grand entertainment and ball to a large number of her eminent husband's pupils. In the grand bal'-room were placed, on the table, a large number of bouquets of flowers (artificial, of course,) all snow-white, and close by, on the same table, a large number of pieces of beautifully-white silk ribbon; at the other end of the room a fountain was arranged, throwing, from nar-row openings, jets of exquisitely-perfumed can de Cologne. The bouquets were taken by the ladies, and the ribbons by the gentlemen; and while waltzing together, and thus arriving at the end of the room where the fountain played, the ladies holding their bouquets to be sprinkled over with the perfume, be-held the white flowers become suddenly beautifully red, violet, blue, yellow, and green coloured, while the ribbons carried by the gentlemen assumed, under the same influence, similar colours. The secret of this trick is simply that the objects alluded to had been very gently dusted over with the dry powders of variously-prepared aniline colours, and, on becoming moistened by the can de Jologne (alcohol), these powders became dissolved, and imparted colours to the objects.

The Cause of Left-Handeducss.

We find the following item in the Independent:-It would be worth while for our anatomists to record their observations on this point. "The cause of right and lefthandedness is generally anatomical. Prof. Hyrtl says that in two cases out of 100 the left subclavian artery has its origin before the right, and in these cases complete lefthandedness exists. The blood is ordinarily sent with more force, according to Hyrtl, through the right than through the left subclavian artery, thus nourishing the muscles of the right arm more fully. In the rare cases where the internal organs are transposed, the heart being on the right side, there is also left-handedness."—Mal. & Surg. Reporter.

Poisoning by Copaiva - Examination of the Blood.

In the Australian Medical Journal for January, a case of sudden death is described, which was supposed to be caused by the free use of copaira. The patient had been sleeping, uttered a scream, was found sitting up in bed, and died immediately. The kidneys were found red and congested, the bladder empty, and the brain congested. The blood being examined, three grains of copaiva were extracted from four ounces—giving an ounce of balsam in the entire circulation. It was supposed by some that the death was occasioned by a spasm of the heart, and not directly by the copaira .- Pacific Medical and Surgical Journal.

First Importion of Cinchona Bark from Java.

It appears that, toward the end of last year, a quantity of some 930 lbs. of this bark has been exported from Java to the Netherlands. According to analysis made by Dr. Moens, in Java, this bark contains from 2.4 to 7.5 per cent. alkaloids, of which quantity 0.59 to 3.67 is quinine. The loss of weight occasioned by the drying of the bark has been