

LABORATORY NOTES.

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I.—ON ACID CALCIUM TARTRATE.

The best way for the purification of mother liquors of the tartaric acid manufacture is to transform the acid, after removal of most of the free sulphuric acid, into calcium acid tartrate.¹ It has appeared commendable to me to use the solution of calcium acid tartrate, obtained in this way, for the *manufacture* of the salt contained in it, which could then advantageously be used alone or mixed with cream of tartar for baking powders. Manufacturers would save labor and fuel in so doing.

II.—ON ALKYL IODIDES.

The attempt was made to prepare methyl iodide in a way different from the one in use which consists in treating iodine and red phosphorus with methyl alcohol. The methods applied were the following :

(A). A solution of iodine in methyl alcohol was treated with hydrogen sulphide until the deep brown color of the liquid has entirely disappeared. The presence of methyl iodide was proved by fractional distillation. Sulphur containing products of bad odor were obtained at the same time and the conditions for working these have yet to be found, before the method can be applied.

(B). A solution of iodine in methyl alcohol was treated with sulphur dioxide. Here also methyl iodide was formed in small quantity. The main product consisted of different ethers.

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¹ *Journ. Am. Chem. Soc.*; **4**, 295.