383

 $\begin{bmatrix} 2 & PO \\ H^6 \end{bmatrix} O^6 - H^2O = \begin{bmatrix} 2 & PO \\ H^4 \end{bmatrix} O^5$  — Pyrophosphoric or tetra-

basic acid.

 $\begin{array}{l} PO\\ Na^{2}H \end{array} O^{3} & - \mbox{ Common phosphate of soda.} \\ \begin{array}{l} 2 \ PO\\ Na^{2}H \end{array} O^{3} & - \ H^{2}O \ = \ \begin{array}{c} 2 \ PO\\ Na^{4} \end{array} O^{5} & - \ Pyrophosphate of soda. \\ \begin{array}{l} PO\\ NaH^{2} \end{array} O^{3} & - \ H^{2}O \ = \ \begin{array}{c} 2 \ PO\\ Na^{4} \end{array} O^{5} & - \ Pyrophosphate of soda. \\ \end{array} \\ \begin{array}{l} PO\\ NaH^{2} \end{array} O^{3} & - \ H^{2}O \ = \ \begin{array}{c} PO\\ Na \end{array} \right\} O^{3} & - \ Metaphosphate of soda. \\ \end{array} \\ \begin{array}{l} Laboratory, \ University \ College, \\ May \ 4th, \ 1875. \end{array}$ 

## SCRAPS.

BY "MONAD."

REACTION OF THE SALTS OF THE ALKALOIDS WITH POTASSIUM IODIDE IN PRESENCE OF FERRIC SALTS.

A short time ago I received the following prescription :---

₿₀

Potass iodid	<b>3</b> i.
Tinct. ferri perchl -	- <u>3</u> i.
Strychnia sulph	gri.
Aqua	₹xv.

The strychnia sulphate dissolved in a little water was added last, and the mixture which had been clear, became filled with a dirty brick red precipitate, which gradually became darker. The precipitate on separation was seen to be finely crystalline, with many larger glistening needles, possessing the properties of free iodine.

A few experiments brought me to the following conclusions :---The salts of morphia, quinia, cinchonia, strychnia, and atropia, in the presence of persalts of iron, decompose potassium iodide, precipitating free iodine. The protosalts of iron have not this effect :

ESS BOUQUET.

Otto	Rose	-	-		-		-	6 drams.
" "	Lemon		-	-		-	-	4 ''
	Bergamo	ot	-		•	-		2 OZ.
Amb	ergris -	-		-	-		-	36 grains.
	Root, gi		-		-	•		11 OZ.
Alco	hol deod.	-		-	-		-	60 oz.