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| **Experiment No. (4)**  **The Chemistry of Phosphorous**  **Preparation of Sodium Pyrophosphate Na4P2O7**  **Preparation of Sodium Meta Phosphate NaPO3** | | | | |
| المواد الكيميائية خزانة الابخرة رقم (1) | الزجاجيات خزانة رقم (1) | | المواد الكيميائية الصلبة بجانب الموازين (1و2) | * + الملاحظات |
|  | نوع | عدد | * A- (0.5 gr) of Na2HPO4 acidic sodium phosphate * B--(0.5gr) of * acidic sodium ammonium phosphate | تنجز كل تجربة بشكل منفصل A عن B لاسبوعين متتالين وتجمع النواتج لاجراء الكشوفات الازمه |
| glass rod  crucible | 1  1 |

**Procedure: (A)**

1. Heat about (0.5 gr) of Na2HPO4 acidic sodium phosphate in crucible for about (10 mints).
2. Write the equation of this reaction.
3. Calculate the theoretical mass and the percentage of the yield.

**Procedure(B)**

1. Heat about (0.5gr) of acidic sodium ammonium phosphate in crucible for about (10 mints).
2. Write the equation of this reaction.
3. Calculate the theoretical mass and the percentage of the yield.
4. Draw the structure of sodium metaphosphate.
5. Drawing the structure of Sodium Metaphosphate
6. Draw the structure of sodium pyrophosphate.