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2010/1 (312-110) 22010

العنصر

[Mother's Day 12/5/06 12:23 PM 12/5/06 12:28 PM 12/5/06 12:29 PM]

רְבָנִים וְלְמַנְדָּרִים, מִפְנֵן אֲלֹתָה, כְּפָרִים וְלְבָנִים

... וְנִזְמַנֵּן תָּמִיד בְּלֹא גְּלֻגָּל אֶל-גְּלֻגָּל

... 18. 11. 1918. מילר, ג'יימס וויליאם
... 18. 11. 1918. פון רוזה, ויליאם פרנץ

11/10/2013 Friday

(1) $\text{Na}_2\text{CO}_3 + \text{Ca}^{2+} \rightarrow \text{CaCO}_3 \downarrow$ (precipitation reaction)

(2) $\text{NH}_3 + \text{H}_2\text{O} \rightleftharpoons \text{NH}_4^+ + \text{OH}^-$ (dissociation)

Sublimation

1. $\text{Na}_2\text{CO}_3 + \text{Ca}^{2+} \rightarrow \text{CaCO}_3 \downarrow$ (precipitation reaction)

2. $\text{NH}_3 + \text{H}_2\text{O} \rightleftharpoons \text{NH}_4^+ + \text{OH}^-$ (dissociation)

3. $\text{CaCO}_3 \downarrow + \text{NH}_4^+ + \text{OH}^- \rightarrow \text{Ca}(\text{NH}_3)_2\text{O} + \text{H}_2\text{O}$ (precipitation reaction)

4. $\text{Ca}(\text{NH}_3)_2\text{O} \rightarrow \text{CaO} + 2\text{NH}_3 \uparrow$ (sublimation)

5. $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2$ (hydration)

6. $\text{Ca}(\text{OH})_2 + \text{NH}_3 \rightarrow \text{Ca}(\text{NH}_3)_2\text{O}$ (precipitation reaction)

7. $\text{Ca}(\text{NH}_3)_2\text{O} \rightarrow \text{CaO} + 2\text{NH}_3 \uparrow$ (sublimation)

8. $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2$ (hydration)

9. $\text{Ca}(\text{OH})_2 + \text{NH}_3 \rightarrow \text{Ca}(\text{NH}_3)_2\text{O}$ (precipitation reaction)

10. $\text{Ca}(\text{NH}_3)_2\text{O} \rightarrow \text{CaO} + 2\text{NH}_3 \uparrow$ (sublimation)

11. $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2$ (hydration)

[P, R and J] P. E. S. in 1923 wrote. Mother's Day - [in] 1923