AP* CHEMISTRY 2008 SCORING GUIDELINES

Charaction 2

Asserted the following operations relating to any timetric analysis.

In the first of two experiments, a student is assigned the task of determining the number of motes of water in one mote of MgCL, in H_oO. The student collects the data shows in the following table.

Mass of empty container	22.347 g
Initial mass of sample and container-	25.825 g
Mass of sample and sometime after first heating	23.982 g
Mass of sample and container after second heating	23,978 g
Mass of sample and container after third heating	23.977.8

(a) Explain why the student can correctly conclude that the hydrax was heated a sufficient number of times in the experiment.

No additional mass was lost during the third bearing, indicating that all the water of hydration had been driven off.

One point is named for the cornect explanation.

- 151. Use the data above to
 - 63 cultivities the total number of motor of winer less when the sample was beased, and

mass of
$$H_2O$$
 lost = $25.825 - 23.977 = 1.848 g$
 OR
 $25.825 - 23.906 = 1.849 g$
 $1.848 g H_2O \times \frac{1 \mod H_2O}{18.02 g H_2O} = 0.1028 \text{ and } H_2O$

One point is assed for calculating the correct number of rucles of water.

(ii) deserving the formula of the hydrated compound.

$$0.830 \pm MgCl_{\odot} \times \frac{1 \text{ mod MgCl}_{\odot}}{95.30 \pm MgCl_{\odot}} = 0.01712 \text{ mod MgCl}_{\odot}$$

$$\frac{0.1026 \text{ mol H}_2\text{O}}{0.01712 \text{ mol MgCI}_2} = 5.993 = 6 \text{ mol H}_2\text{O per mol MgCI}_2$$

Formula is MgCl₁ - 6H₂O

One point is earned for calculating the correct number of incise of anhydrous MgCl₂.

One point is carned for writing the correct formula (with supporting calculations).

Gravimetric Analysis Questions With Answers

Mr. Rohit Manglik

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