

Question 33 (4 marks)

A student adds 1.17 g of $\text{Al}(\text{OH})_3(s)$ to 0.500 L of $0.100 \text{ mol L}^{-1} \text{HCl}(aq)$.

4

Calculate the pH of the resulting solution. Assume that the volume of the resulting solution is 0.500 L.

① Write a balanced chemical equation



② Find no. of moles of OH^- and H^+

$$n(\text{Al}(\text{OH})_3) = \frac{m}{M_r} = \frac{1.17}{26.98 + 3(16 + 1.008)} = 0.01499... \text{ mol}$$

$$n(\text{OH}^-) = 3 \times n(\text{Al}(\text{OH})_3) = 0.04499... \text{ mol}$$

$$n(\text{HCl}) = c \times V = 0.5 \times 0.1 = 0.05 \text{ mol}$$

$$n(\text{H}^+) = n(\text{HCl}) = 0.05 \text{ mol}$$

③ Determine which reagent is in excess and how much

As $n(\text{H}^+) > n(\text{OH}^-)$ $\therefore \text{H}^+$ is in excess

$$n(\text{H}^+)_{\text{excess}} = 0.05 - 0.04499... = 0.00500... \text{ mol}$$

④ Calculate the $[\text{H}^+]$ and thus find pH.

$$[\text{H}^+] = \frac{n}{V} = \frac{0.00500...}{0.500} = 0.0100... \text{ mol L}^{-1}$$

$$\text{pH} = -\log_{10} [\text{H}^+] = 2.000 \text{ (3 dp)}$$

Using a calculator for pH

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Jim Stamell



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Excel HSC Biology Diane Alford, Jennifer Hill, 2008 **T.T. Chen Honorary Symposium on Hydrometallurgy, Electrometallurgy and Materials Characterization** Shijie Wang, J. E.

Dutrizac, Michael L. Free, James Y. Hwang, Daniel Kim, 2012-05-09 Proceedings of a symposium sponsored by the Hydrometallurgy and Electrometallurgy Committee and the Materials Characterization Committee of the Extraction and Processing Division of TMS The Minerals Metals Materials Society Held during the TMS 2012 Annual Meeting Exhibition Orlando Florida USA March 11 15 2012 **Treatise on Process Metallurgy** Alexander McLean, Roderick Guthrie, Sridhar Seetharaman, H. Y. Sohn, 2024-08-23 Treatise on Process Metallurgy Volume Four Industrial Production provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics Excel HSC Survival Guide Pascal Press Staff, 1996

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High Temperature Corrosion and Protection of Materials 6 Pierre Steinmetz, 2004

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