

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^+

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

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

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

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

③ Determine which reagent is in excess and how much

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

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

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

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

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

Using a calculator for pH

Please turn over

Hsc Chemistry 6 User Guide

Lei Shi

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

Hsc Chemistry 6 User Guide:

Excel HSC Chemistry Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39 95 PAGES 428 pp
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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 **Excel HSC Biology** Diane Alford, Jennifer Hill, 2008 *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 ECOS 2012 The 25th International Conference on Efficiency, Cost, Optimization and Simulation of Energy Conversion Systems and Processes (Perugia, June 26th-June 29th, 2012) Umberto Desideri, Enrico Sciubba, Giampaolo Manfrida, 2012 The 8 volume set contains the Proceedings of the 25th ECOS 2012 International Conference Perugia Italy June 26th to June 29th 2012 ECOS is an acronym for Efficiency Cost Optimization and Simulation of energy conversion systems and processes summarizing the topics covered in ECOS Thermodynamics Heat and Mass Transfer Exergy and Second Law Analysis Process Integration and Heat Exchanger Networks Fluid Dynamics and Power Plant Components Fuel Cells Simulation of Energy Conversion Systems Renewable Energies Thermo Economic Analysis and Optimisation Combustion Chemical Reactors Carbon Capture and Sequestration Building Urban Complex Energy Systems Water Desalination and Use of Water Resources Energy Systems Environmental and Sustainability Issues System Operation Control Diagnosis and Prognosis Industrial Ecology Excel HSC Chemistry C. M. Roebuck, 2003 **High Temperature Corrosion and Protection of Materials 6** Pierre Steinmetz, 2004 *Excel HSC Survival Guide* Pascal Press Staff, 1996 **HSC Mathematics Revision & Exam Workbook** Lyn Baker, 2004 This book has been specifically designed to help Year 12 students to roughly revise all topics in the HSC Mathematics course and prepare for class assessments trial HSC and HSC exams Together with the Year 11 Preliminary Revision Exam Workbook the whole senior Mathematics course is covered The book includes topics covering the complete HSC Mathematics course 200 pages of practice exercises with topic tests for all chapters cross references to relevant pages in the HSC Mathematics study guide

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