

2009 AP[®] CHEMISTRY FREE-RESPONSE QUESTIONS

1. Answer the following questions that relate to the chemistry of halogen oxoacids.

(a) Use the information in the table below to answer part (a)(i).

Acid	K_a at 298 K
HOCl	2.9×10^{-8}
HOBr	2.4×10^{-9}

(i) Which of the two acids is stronger, HOCl or HOBr? Justify your answer in terms of K_a .

(ii) Draw a complete Lewis electron-dot diagram for the acid that you identified in part (a)(i).

(b) Write the equation for the reaction that occurs between hypochlorous acid and water.

(c) A 1.2 M NaOCl solution is prepared by dissolving solid NaOCl in distilled water at 298 K. The hydrolysis reaction $\text{OCl}^-(aq) + \text{H}_2\text{O}(l) \rightleftharpoons \text{HOCl}(aq) + \text{OH}^-(aq)$ occurs.

(i) Write the equilibrium-constant expression for the hydrolysis reaction that occurs between $\text{OCl}^-(aq)$

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Nader Rifai



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Cracking the SAT 2010 Adam Robinson, Princeton Review, John Katzman, 2002 Combines score raising techniques a core vocabulary word list and three full length practice tests **Cracking the AP.** ,2008 *Complete Book of Colleges*

Princeton Review (Firm), 2008 A comprehensive guide that profiles all of the four year colleges in the U S this work is packed with the information that prospective applicants need to know including the details on academics admissions requirements tuition and fees and more **Private Secondary Schools** Peterson's, 2011-05-01 Peterson's Private Secondary Schools is

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Resources Abstracts ,1987 **Private Secondary Schools: Traditional Day and Boarding Schools**

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