

$$\begin{aligned}
 K' &= \frac{[\text{H}_2\text{O}_2]}{[\text{NO}_2]^2} \\
 &= \frac{(9.3 \times 10^{-3})}{[\text{NO}_2]^2} \\
 &= \frac{(9.3 \times 10^{-3})}{(66.5 \times 10^{-3} \text{ mol/L})^2} \\
 &= 2.20 \\
 &= 2.2 \times 10^2
 \end{aligned}$$

45. (a) Students should expect it to be a base.



- (c) Candy contains sucrose, which will remove hydroxyapatite from teeth by reacting with it at low pH to give $\text{Ca}^{2+}_{(aq)}$ and $\text{H}_2\text{PO}_4^-_{(aq)}$ that are in soluble form.

46.

	$\text{NH}_3 \sim (\text{CH}_3)_3\text{N} \sim \text{NH}_3$	$\text{NH}_3 \sim (\text{CH}_3)_3\text{N} \sim \text{NH}_3^+$	OH^-
initial conc.	0.10	0	0
change	-0.0021	+0.0021	+0.0021
equilibrium	0.0979	0.0021	0.0021

$$K_b = \frac{(0.0021)^2}{0.0979} = 4.5 \times 10^{-5}$$

47. The conductivity of 0.1 mol/L HCl is higher than for 0.1 mol/L CH_3COOH because the HCl is completely ionized whereas the CH_3COOH is only partly ionized. For solutions of these two acids at a concentration of 1×10^{-7} mol/L, the HCl is still ionized completely and the CH_3COOH again is only partly ionized. However at such a low concentration the conductivity of the HCl is the same as for water. There will be no discernable difference in the conductivities at this low concentration.

48. One drop of concentrated acid will have a high concentration of H_3O^+ ions. (E.g., For HCl $[\text{H}_3\text{O}^+] =$ about 12.5 mol/L, for H_2SO_4 $[\text{H}_3\text{O}^+] =$ about 35 mol/L. When one drop of acid is added to a bucket of water, the H_3O^+ ion concentration is diluted by a very large factor.

49. (a) A triprotic acid is an acid that has three protons that may be dissociated, each with its own K_a value.

- (b) Stepwise Equation 1:



- Stepwise Equation 2:



- Stepwise Equation 3:



- (c) $\text{H}_2\text{PO}_4^-_{(aq)}$ acts as an acid in equation 2 above. In the equation below, it acts as a base.



- (d) Students may say that $\text{H}_3\text{PO}_{4(laq)}$ is the stronger acid because it is higher in the list of relative strengths of acids and bases. Some students may suggest that $\text{H}_3\text{PO}_{4(laq)}$ is a stronger acid because its K_a value is larger than that of $\text{H}_2\text{PO}_4^-_{(aq)}$, which is a "stronger" answer.

50. Water could have a pH greater than 7.0 at a temperature different from 25°C.

51. (a) Students might suggest either of these equations:



- (b) The litmus test indicates that the solution is basic, so the solution contains a considerable $[\text{OH}^-]$. Neither of these equations, written according to the original Arrhenius theory, is consistent with the litmus test. Equation two above even implies a red litmus result! Accordingly, the litmus test contradicts the Arrhenius theory equations.

- (c) A student could have two frames of thought.

Perspective I:



or, without the spectator, Na^+ :



Perspective II



or, without the spectator, Na^+ :



Note that, if a student writes equations according to Perspective I, the student still has a set of equations that contradict the litmus test. But if the student then realizes that the hydrogen carbonate ion is amphoteric, another valid set of equations according to Perspective II may be written. Given the litmus test, the student should then analyze and evaluate the equations to state that Perspective II is not only correct according to modernized Arrhenius, but also consistent with the litmus test. Some students will have realized this out of part (b), and will present only Perspective II.

Modeling Chemistry Unit 6 Quiz 1b

RM Cervero



Modeling Chemistry Unit 6 Quiz 1b:

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Technical Abstract Bulletin, *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1968 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Index Medicus**, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *U.S. Government Research Reports*, 1962 **Scientific and Technical Aerospace Reports**, 1994 *Energy Research Abstracts*, 1992 The Latest and Best of TESS, 1991 *Research in Education*, 1972 Progress in Modeling and Simulation of Batteries John Turner, 2016-06-15 Modeling and simulation of batteries in conjunction with theory and experiment are important research tools that offer opportunities for advancement of technologies that are critical to electric motors The development of data from the application of these tools can provide the basis for managerial and technical decision making Together these will continue to transform batteries for electric vehicles This collection of nine papers presents the modeling and simulation of batteries and the continuing contribution being made to this impressive progress including topics that cover Thermal behavior and characteristics Battery management system design and analysis Moderately high fidelity 3D capabilities Optimization Techniques and Durability As electric vehicles continue to gain interest from manufacturers and consumers alike improvements in economy and affordability as well as adoption of alternative fuel sources to meet government mandates are driving battery research and development Progress in modeling and simulation will continue to contribute to battery improvements that deliver increased power energy storage and durability to further enhance the appeal of electric vehicles Cumulated Index Medicus, 1994 **Resources in Education**, 1999 **Acta Crystallographica**, 1925 Nuclear Science Abstracts, 1976 *Fossil Energy Update*, 1977 Proceedings of the 11th New Zealand Geothermal Workshop, 1989 K. Nicholson, 1989 The City Record New York (N.Y.), 1916 *Comprehensive Nuclear Materials*, 2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation temperature and or corrosion and in many cases the combination of these makes the material behavior very different from conventional materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions

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