

Chemistry Final Exam Review Questions

Useful Values and Equations

Some of the following values and equations may be useful for answering some of the questions and problems.

$$Q_F = 1.84 Q_C + 12$$

speed of light = 3.00×10^8 m/s

2000

$R = 0.082057 \text{ L-atm / deg-mole}$

Planck's constant = $6.63 \times 10^{-34} \text{ J.s}$

15. *Journal of the American Medical Association*, 277:1005-1006 (1997).

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- One of the following does **not** describe gases. Which one is it?
 - Expands infinitely.
 - Rigid shape.
 - Easily compressed.
 - Relatively low densities.
- The following properties describe the element, mercury (Hg). Which one is a **chemical** property?
 - Its density is 5.43 g/cm^3 .
 - It is a silvery-white metal.
 - It is a liquid at 298 K .
 - Mercury(II) sulfide forms when it is exposed to sulfide ions.
- All of the following are properties of SO_2 . Which one is a **physical** property?
 - It reacts with oxygen to form SO_3^{2-} .
 - It condenses to a colorless liquid at 14°F and atmospheric pressure.
 - It is a strong reducing agent.
 - It reacts with water and oxygen to form an acid.
- Which of the following numbers has 4 significant figures?
 - 0.04309
 - 0.0430
 - 0.0431
 - 0.43980
- How many significant figures should there be in the answer to the following math equation?
$$2.834 + 5.71520 + 2.12 + 178.1 + 250.2619$$
 - 3
 - 4
 - 5
 - 6
- How many significant figures should there be in the answer to the following math equation?
$$23.413 \text{ g} + (2.15 \text{ cm} \times 1.1 \text{ cm} \times 3.73 \text{ cm})$$
 - 2
 - 3
 - 4
 - 5
- At 25°C , one cm^3 of iron has a mass of 7.62 grams. What volume of iron is occupied by 125 grams of iron?
 - 0.82 cm^3
 - 8.2 cm^3
 - 0.164 cm^3
 - 16.4 cm^3
- A cube of lead has a volume of 6.61 cm^3 . Its mass is 75.0 grams. What is its density?
 - 3.85 g/cm^3
 - 7.41 g/cm^3
 - 11.3 g/cm^3
 - 22.6 g/cm^3

Modeling Chemistry Review For Final Exam

M Mark



Modeling Chemistry Review For Final Exam:

United States Air Force Academy United States Air Force Academy,1985 Nuclear Science Abstracts ,1976 Annual Catalogue United States Air Force Academy,1985 **Monthly Catalogue, United States Public Documents** ,1991
Monthly Catalog of United States Government Publications United States. Superintendent of Documents,1991 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Analysis of Engineering Design Studies for Demilitarization of Assembled Chemical Weapons at Blue Grass Army Depot National Research Council,Division on Engineering and Physical Sciences,Board on Army Science and Technology,Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons: Phase II,2002-10-27 The U S Army is in the process of destroying the nation s stockpile of aging chemical weapons stored at eight locations in the continental United States and on Johnston Atoll in the Pacific Originally incineration was chosen for the destruction of these stores but this method has met with public opposition and Congress directed the Army to develop alternative technologies for destroying the stockpiles in Pueblo CO and Richmond KY To assist the Army in this process the NRC was asked to evaluate the engineering design study of the three Blue Grass candidates This book presents an analysis of various issues pertaining to the proposed engineering design package for the Blue Grass facility *The Saturday Review of Politics, Literature, Science and Art* ,1872 The Saturday Review of Politics, Literature, Science, Art, and Finance ,1872 **Federal Register** ,1996-06-26 EPA Publications Bibliography United States. Environmental Protection Agency,1987

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