

Empirical Formula Practice 1.0 – Answer Key**Objective:** - Calculate the empirical formula of a compound given experimental data**Directions:** Answer the following empirical formula questions. Show all work! Include units!

1. Dibutyl succinate is an insect repellent used against household ants and roaches. Its composition is 62.58% C, 9.83% H and 27.79% O. Find its empirical formula. $[C_{16}H_{22}O_4]$

$$C: = 5.210658 \text{ mol} + 1.736875 = 3.0000 \quad = 3 \quad \times 2 = 6$$

$$H: = 9.534653 \text{ mol} + 1.736875 = 5.4895 \quad = 5.5 \quad \times 2 = 11$$

$$O: = 1.736875 \text{ mol} + 1.736875 = 1 \quad = 1 \quad \times 2 = 2$$



2. The compound adrenaline contains 56.7% C, 6.56% H, 8.28% N, and 28.37% O by mass. What is the empirical formula for adrenaline?

$$C: = 4.721066 \text{ mol} + 0.591006 = 7.9882 \quad = 8$$

$$H: = 6.495050 \text{ mol} + 0.591006 = 10.9698 \quad = 11$$

$$N: = 0.591006 \text{ mol} + 0.591006 = 1 \quad = 1$$

$$O: = 1.773125 \text{ mol} + 0.591006 = 3.0002 \quad = 3$$



3. A sample of urea contains 0.480 g of C, 0.161 g of H, 1.121 g of N, and 0.640 g of O. What is the empirical formula of urea?

$$C: = 0.039967 \text{ mol} + 0.039967 = 1 \quad = 1$$

$$H: = 0.159406 \text{ mol} + 0.039967 = 3.9664 \quad = 4$$

$$N: = 0.080014 \text{ mol} + 0.039967 = 2.0002 \quad = 2$$

$$O: = 0.040000 \text{ mol} + 0.039967 = 1.0008 \quad = 1$$



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NANDIPATI SUBBA RAO,2016-12-01 Numerical calculations are inevitably required in the field of hydrogeology and play a significant role in dealing with its various aspects As often as not students are seen struggling while solving numerical problems based on hydrogeology as they find difficulty in identifying the correct concept behind the problem and the formula that can be applied to it Also there is a dearth of books which help the readers in solving numerical problems of varied difficulty level and enable them to have a firm grounding in the subject of hydrogeology The book Hydrogeology Problems with Solutions fills this void in the finest way and as desired chiefly focuses on the sequential steps involved in solving the problems based on hydrogeology It concisely covers the fundamental concepts advanced principles and applications of hydrogeological tasks rather than overemphasising the theoretical aspects The text comprises sixty solved hydrogeological problems which are logically organised into ten chapters including hydrological cycle morphometric analysis hydrological properties groundwater flow well hydraulics well design and construction groundwater management seawater intrusion groundwater exploration and groundwater quality The practice of pedagogy of hydrogeology in yesteryears was a two tier approach of theoretical principles with toy problems and in situ case studies for research start up This book bridges the gap between routine problem solving and state of the practice for future The book is primarily intended for the undergraduate and postgraduate students of Earth Sciences Civil Engineering Water Resources Engineering Hydrogeology and Hydrology It also serves as an excellent handy reference for all professionals KEY FEATURES Key Concept succinctly explores the models methods and theoretical concepts related to each problem Necessary equations and formulae are specified Appendices and Glossary are included leaving no scope to refer any other book Bibliography broadens the scope of the book

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Porous Silicon in Practice M. J. Sailor, 2012-01-09 By means of electrochemical treatment crystalline silicon can be permeated with tiny nanostructured pores that entirely change the characteristics and properties of the material One prominent example of this can be seen in the interaction of porous silicon with living cells which can be totally unwilling to settle on smooth silicon surfaces but readily adhere to porous silicon giving rise to great hopes for such future applications as programmable drug delivery or advanced braincontrolled prosthetics Porous silicon research is active in the fields of sensors tissue engineering medical therapeutics and diagnostics photovoltaics rechargeable batteries energetic materials photonics and MEMS Micro Electro Mechanical Systems Written by an outstanding well recognized expert in the field this book provides detailed step by step instructions to prepare and characterize the major types of porous silicon It is intended for those new to the field Sampling of topics

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