

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?

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

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

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

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



Empirical Formula 1 Answer Key

L Darling-Hammond



Empirical Formula 1 Answer Key:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Empirical Formula 1 Answer Key**

In a world inundated with monitors and the cacophony of instant interaction, the profound energy and mental resonance of verbal art usually disappear into obscurity, eclipsed by the constant barrage of sound and distractions. Yet, set within the lyrical pages of **Empirical Formula 1 Answer Key**, a captivating function of fictional brilliance that impulses with raw feelings, lies an wonderful trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this enchanting opus manuals viewers on a psychological odyssey, gently exposing the latent potential and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is central themes, dissect their charming writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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Concentration The elastic stress concentration factor K_t is the ratio of the maximum stress in the stress raiser to the nominal stress computed by the ordinary mechanics-of- ... Peterson's Stress Concentration Factors by Pilkey, Walter D. Filled with all of the latest developments in stress and strain analysis, this Fourth Edition presents stress concentration factors both graphically and with ... Stress Concentration Factors | PDF Chart 4.2 Stress concentration factors for the tension of a thin semi-infinite element with a circular hole near the edge (Mindlin 1948; Udoguti 1947; Isida ... Table A-15 Charts of Theoretical Stress-Concentration ... by A Figure · Cited by 4 — Source: R. E. Peterson, Stress-. Concentration Factors, Wiley,. New York, 1974, pp. 146, 235. The nominal bending stress is $\sigma_0 = M/Z_{net}$ where Z_{net} is a reduced. Peterson's Stress Concentration Factors, Third Edition Dec 13, 2023 — Peterson's Stress Concentration Factors establishes and maintains a system of data classification for all of the applications of stress and ...