

ANSWERS

Nuclear Chemistry Review Questions

1. Compare the mass, charge, and penetration power of alpha, beta and gamma radiation.

	Mass	Charge	Penetration
Alpha	4	+	Lowest
Beta	0	-	Middle
Gamma	0	0	Highest

2. In 5.49 seconds, 1.20g of argon-35 decays to leave only 0.15g. What is the half-life?

1.20g \rightarrow 0.60g \rightarrow 0.30g \rightarrow 0.15g , therefore it took 3 half-life periods.

$$5.49 \div 3 = 1.83 \text{ sec}$$

3. How many days does it take 16.0g of gold-198 to decay to 1.0g?

16.0g \rightarrow 8.0g \rightarrow 4.0g \rightarrow 2.0g \rightarrow 1.0g , therefore 4 half-life periods

From Ref Table N, 1 half-life = 2.69d

$$2.69\text{d} \times 4 = 10.76 \text{ days}$$

4. Why does an atom undergo radioactive decay?

Because it has an unstable nucleus

5. Compare and contrast fission and fusion. Why is fission used for electrical and fusion is not?

Fission=Division, the splitting of large unstable atoms(nucleus)

Fusion=joining together, small isotopes of H, creates way more energy

6. How is nuclear chemistry applied to medicine? What type of radioisotope must be used when it is injected into a person?

Radioisotopes are used to treat and diagnose illnesses

If injected they must have short half-lives and quickly removed from the body

7. Write out the nuclear decay of radium-226.



8. What is different about nuclear reactions when compared to a chemical reaction?

Nuclear reactions transform atoms into other atoms, chemical reactions involved the rearrangement of electrons

9. At what point do all isotopes of an element become radioactive?

Up to and including atomic # 83

Nuclear Chemistry Answers

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The Handy Chemistry Answer Book Justin P. Lomont, Ian C. Stewart, 2013-10-01 Don't be mixed up about chemistry Simplify the complex chemical reactions that take place everywhere in our lives with this engaging easy to follow question and answer guide Where would we be without atoms and compounds Gas liquids solids and plasma Acids and bases Bonds and reactions Matter and energy The Handy Chemistry Answer Book covers the building blocks of life and the universe The secret life of atoms how polar bears aren't actually white why oil and water don't mix and much much more are revealed and explained This informative guide covers the basics of chemistry history atomic structures chemical bonds and reactions organic and inorganic chemistry to more advanced material nuclear chemistry biochemistry physical and theoretical chemistry by answering nearly 1 000 common chemistry questions including What causes lightning How does photosynthesis work What are hard and soft Lewis acids and bases What makes a fabric waterproof What are the twelve principles of green chemistry When did alchemists finally abandon trying to make gold What is Le Chatelier's principle What do the different octane ratings mean at the gas pump What is genetic engineering Why is calcium important for strong bones What is the 18 electron rule Why does chocolate turn white as it ages Chemical reactions that rule the world their properties structure composition behavior and history are tackled and explained in plain English in The Handy Chemistry Answer Book With many photos illustrations a few formulas molecular diagrams and other graphics this fun fact filled tome is richly illustrated A history of chemistry timeline appendices on Nobel Prize in Chemistry winners a bibliography further reading section glossary of terms a table of physical constants a table of conversion factors and extensive index add to its usefulness **E3**

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