Chemistry: Atoms First 2e 20: Nuclear Chemistry 20.2: Nuclear Equations

Write a brief description or definition of each of the following:

(a) nucleon.

(b) a particle

(c) β particle

(d) positron

(e) y ray

(f) nuclide

(g) mass number

(h) atomic number

Solution

(a) A nucleon is any particle contained in the nucleus of the atom, so it can refer to protons and neutrons. (b) An α particle is one product of natural radioactivity and is the nucleus of a helium atom. (c) A β particle is a product of natural radioactivity and is a high-speed electron. (d) A positron is a particle with the same mass as an electron but with a positive charge. (e) Gamma rays compose electromagnetic radiation of high energy and short wavelength. (f) Nuclide is a term used when referring to a single type of nucleus. (g) The mass number is the sum of the number of protons and the number of neutrons in an element. (h) The atomic number is the number of protons in the nucleus of an element.

13. Complete each of the following equations by adding the missing species:

Solution

(a)
$$\frac{1}{1}AI + \frac{1}{2}He - \rightarrow \frac{1}{1}P + \frac{1}{4}n$$
; (b) $\frac{1}{1}Pu + \frac{1}{2}He - \rightarrow \frac{1}{1}Cm + \frac{1}{4}n$; (c) $\frac{1}{1}N + \frac{1}{2}He - \rightarrow \frac{1}{4}O + \frac{1}{4}H$; (d) $\frac{1}{1}U - \rightarrow \frac{1}{4}Rb + \frac{1}{4}Cs + \frac{1}{4}n$

15. Write a balanced equation for each of the following nuclear reactions:

(a) the production of ¹⁷O from ¹⁴N by α particle bombardment

(b) the production of 14C from 14N by neutron bombardment

(c) the production of 200Th from 200Th by neutron bombardment

(d) the production of 200U from 200U by 111 bombardment. Solution

(a)
$${}^{12}N + {}^{14}He - \rightarrow {}^{12}O + {}^{14}H_{2}$$
 (b) ${}^{12}C + {}^{14}n - \rightarrow {}^{12}C + {}^{14}H_{2}$ (c) ${}^{220}Th + {}^{1}n - \rightarrow {}^{220}Th_{2}$ (d) ${}^{230}U + {}^{14}H - \rightarrow {}^{230}U + {}^{14}H$

17. The mass of the atom "F is 18.99840 amu.

(a) Calculate its binding energy per atom in millions of electron volts.

(b) Calculate its binding energy per nucleon

Solution

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Sebastian Brünink

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