Nuclear Chemistry – Alpha, Beta, and Gamma Decay Practice

Identify the following examples as alpha, beta, or gamma decay.

1.
$$^{233}_{92}U \rightarrow ^{4}_{2}He + ^{229}_{90}Th _alpha_$$

4.
$$^{202}_{81}\text{TI} \rightarrow ^{202}_{81}\text{TI} + ^{0}_{0}\text{Y}$$
 gamma

2.
$$^{99}_{43}$$
Tc $\rightarrow ^{0}_{-1}$ e + $^{99}_{44}$ Ru beta

5.
$${}^{125}_{53}I \rightarrow {}^{0}_{0} Y + {}^{125}_{53}I$$
 gamma

3.
$$^{175}_{78}$$
 Pt $\rightarrow ^{171}_{76}$ Os + $^{4}_{2}$ He _alpha_

6.
$$^{82}_{35}Br \rightarrow ^{82}_{36}Kr + ^{0}_{-1}e$$
 beta

Alpha Decay: Write the alpha decay equations for the following nuclides. Example: ${}^{208}_{84}$ Po $\rightarrow {}^{4}_{2}$ He + ${}^{204}_{82}$ Pb

Example:
$${}^{208}_{84}$$
 Po $\rightarrow {}^{4}_{2}$ He + ${}^{204}_{82}$ Pb

7.
$$^{256}_{103}$$
Lr $\rightarrow ^{4}_{2}$ He + $^{252}_{101}$ Md

9.
$$^{185}_{79}$$
 Au $\rightarrow ^{4}_{2}$ He + $^{181}_{77}$ Ir

s.
$$^{231}_{91}$$
 Pa $\rightarrow ^{4}_{2}$ He + $^{227}_{89}$ Ac

10.
$$^{211}_{87}$$
 Fr $\rightarrow ^{4}_{2}$ He + $^{207}_{85}$ At

Beta Decay: Write the beta decay equations for the following nuclides.

Example:
$${}^{14}_{6}C \rightarrow {}^{14}_{7}N + {}^{0}_{-1}e$$

11.
$$^{24}_{11}$$
 Na $\rightarrow ^{24}_{8}$ O + $^{0}_{-1}$ e

13.
$$^{247}_{95}$$
 Am $\rightarrow ^{247}_{96}$ Cm + $^{0}_{-1}$ e

12.
$$^{201}_{79}$$
 Au $\rightarrow ^{201}_{80}$ Hg + $^{0}_{-1}$ e

14.
$${}^{90}_{38}$$
Sr $\rightarrow {}^{90}_{39}$ Y + ${}^{0}_{-1}$ e

Balancing Decay Reactions: Fill in the blank in each of the following decay reactions with the correct decay particle or decayed nucleus that will balance the reaction, also state whether it is alpha or beta decay

15.
$$^{184}_{74}$$
 W $\rightarrow ^{4}_{2}$ He + $^{180}_{72}$ Hf

20.
$$^{60}_{27}W \rightarrow ^{0}_{-1}e + ^{60}_{28}Ni$$

Nuclear Chemistry Answers

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Handbook of Nuclear Chemistry Attila Vértes, Sándor Nagy, Zoltán Klencsár, Rezso György Lovas, Frank Rösch, 2010-12-10 This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry The Handbook set covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine The nuclear methods of the investigation of chemical structure also receive ample space and attention The international team of authors consists of scores of world renowned experts nuclear chemists radiopharmaceutical chemists and physicists from Europe USA and Asia The Handbook set is an invaluable reference for nuclear scientists biologists chemists physicists physicians practicing nuclear medicine graduate students and teachers virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science The Handbook set also provides further reading via the rich selection of references

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