NUCLEAR CHEMISTRY AND APPLICATIONS OF RADIOACTIVITY

Nuclear chemistry: The branch of chemistry which deals with the study of radioactivity, nuclear processes and transformations in the nuclei of atoms etc. is called nuclear chemistry.

Radioactivity: The phenomenon of spontaneous emission of invisible radiations like α -particles, β particles and γ -particles from unstable nuclei to get the stability is called radioactivity.

The substances which show radioactivity are called radioactive substances. For example: Uranium, thorium, polonium etc.

Units of radioactivity:

The unit of radioactivity is Curie (Ci) and defined as the mass of radioactive substance that can produce 3.7 x 10¹⁰ dis-integration per second. Its other units are milli curie and micro curie.

 $1 \text{ Ci} = 3.7 \times 10^{10} \text{dps} = 3.7 \times 10^{10} \text{Bq}$

Note: Bq (Becquerel) is another unit of radioactivity.

Natural radioactivity: The process of self disintegration of unstable nuclei by emission of different types of radiations to get stability is called natural radioactivity. For example: Uranium, polonium and radium show natural radioactivity. Generally, heavier nuclei show natural radioactivity due to less binding energy per nucleon.

 $^{238}_{92}U$ \rightarrow $^{234}_{96}Th$ + $^{4}_{2}He^{**}$

(Parent element) (Daughter nuclei) (α-particle) It cannot be controlled.

Artificial radioactivity (Transmutation): The process by which an element gets converted into new element by bombarding it with high energy particles is called artificial radioactivity.

It can be controlled by controlling the speed of bombarding particles.

For example:

$$^{24}_{12}$$
Mg + $^{4}_{2}$ He⁺⁺ \rightarrow $^{1}_{0}$ n + $^{27}_{14}$ Si \rightarrow $^{27}_{13}$ Al + $^{0}_{+1}$ e(positron)

$$^{23}_{11}Na + ^{2}_{1}H \rightarrow ^{1}_{1}H + ^{24}_{11}Na \rightarrow ^{24}_{12}Mg + ^{0}_{.1}e(\beta)$$
 $^{27}_{13}Al + ^{4}_{2}He^{**} \rightarrow ^{30}_{15}P + ^{1}_{0}n$
 $^{30}_{15}P \rightarrow ^{30}_{14}Si + ^{0}_{+1}e(\beta^{*})$
(positron)

Nuclear reactions: The reaction in which the compositions of certain nuclei undergo a change are called nuclear reactions.

There are two types of nuclear reactions and they are:

- 1. Nuclear fission reaction
- 2. Nuclear fusion reaction

Nuclear fission reaction: The nuclear reaction in which a heavy nucleus splits into two or more lighter nuclei with the simultaneous emission of large amount of energy is called nuclear fission reaction.

A chain reaction is set up in nuclear fission reaction. The products of the reaction are radioactive. For example:

$$^{235}_{92}U + ^{1}_{0}n \rightarrow ^{144}_{56}Ba + ^{90}_{36}Kr + 2^{1}_{0}n + \text{Energy}$$

Nuclear fusion reaction: The nuclear reaction in which two lighter nuclei combine with each other to give stable nuclei with higher mass is called nuclear fusion.

They are generally carried out at very high temperature. A chain reaction is not set up in the nuclear reaction. The products of the reaction are not radioactive. For example:

$${}_{1}^{2}H + {}_{1}^{3}H \rightarrow {}_{2}^{4}He + {}_{0}^{1}n + \text{Energy}$$

The total energy produced during formation of one nuclei of belium is 26.82MeV.

Note: A practical application of nuclear fusion reaction is the production of hydrogen bomb, which is the misuse of nuclear power. Hydrogen bomb is 1000 times powerful than the atomic bomb.

Differences between nuclear fission and nuclear fusion reactions: The differences between nuclear fission and nuclear fusion reactions:

Nuclear fission reaction	Nuclear fusion reaction
The nuclear reaction in	The nuclear reaction in

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Peter A. C. McPherson

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Nuclear and Radiochemistry Karl Heinrich Lieser, 2008-09-26 This new edition of the best selling handbook gives a complete and concise description of the latest knowledge on nuclear and radiochemistry as well as their applications in the various fields of science It is based on over 40 years experience in teaching courses and research The book is aimed at all researchers seeking sound knowledge about the properties of matter whether chemists physicists medical doctors mineralogists or biologists All of them will find this a valuable source of information Research in radiochemistry includes Study of radioactive matter in nature investigation of radioactive transmutations chemistry of radioelements etc Applications include Radionuclides in geo and cosmochemistry dating by nuclear methods radioanalysis Mossbauer spectroscopy and related methods behavior of natural and man made radionuclides in the environment dosimetry and radiation protection All the subjects are presented clearly and comprehensibly and in a logical sequence avoiding detailed derivations of equations. The relevant information is compiled in tables and the recent edition of the multi colored Karlsruhe Chart of the Nuclides has also been included Clearly a standard work by an author with extensive experience in research and teaching Textbook Of Nuclear Chemistry A. Singh, R. Singh, 2006-01-01 Nuclear Chemistry Maheshwar Sharon, Madhuri Sharon, 2021-02-01 This book is designed to serve as a textbook for core courses offered to postgraduate students enrolled in

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Modern Nuclear Chemistry Walter D. Loveland, David J. Morrissey, Glenn T. Seaborg, 2017-03-21 Written by established experts in the field this book features in depth discussions of proven scientific principles current trends and applications of nuclear chemistry to the sciences and engineering Provides up to date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion requiring no basic knowledge of quantum mechanics Adds discussion of math tools and simulations to demonstrate various phenomena new chapters on Nuclear Medicine Nuclear Forensics and Particle Physics and updates to all other chapters Includes additional in chapter sample problems with solutions to help students Reviews of 1st edition an authoritative comprehensive but succinct state of the art textbook The Chemical Educator and an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes CHOICE

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