

## Nuclear chemistry

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The branch of chemistry which deals with the study of composition of atomic nucleus and the nuclear trans- formations"

The discussion of nuclear science with special emphasis on its chemical aspects is termed **nuclear chemistry**. It has become a very important and fascinating branch of science due to the tremendous amount of energy liberated during nuclear reaction, which led to the discovery of atom bomb, hydrogen bomb, etc. The controlled release of nuclear energy promises to lead us into a new era, in which an unlimited storehouse of energy is available to man. It is rightly said that we are now living in the nuclear age and the future of humanity is at the mercy of the nuclear scientists. They can annihilate the whole world within a few minutes. They are the hope of human happiness and prosperity as well. In this chapter we shall deal broadly with the various aspects of nuclear chemistry