

### Answer on Question #50331, Chemistry, Other

What is the beta decay equation for  $^{81}\text{Tl}_{205}$ ?

**Answer:**

Beta decay ( $\beta$  decay) is a type of radioactive decay in which a proton is transformed into a neutron, or vice versa, inside an atomic nucleus. This process allows the atom to move closer to the optimal ratio of protons and neutrons. As a result of this transformation, the nucleus emits a detectable beta particle, which is an electron or positron.

In fully ionized state, the isotope  $^{205}\text{Tl}$  becomes beta-radioactive, decaying to  $^{205}\text{Pb}$

