



RadDecay[®] v5

RadDecay[®] v5 is an interactive program for displaying radioactive decay information for any of the radionuclides in the libraries. RadDecay[®] comes with the standard nuclide library of 497 nuclides and three optional libraries (ICRP-107 with 1252 nuclides, ICRP-38 with 838 nuclides and MIRD with 242 nuclides). Data displayed includes the half-lives, radioactive daughter nuclides, probabilities per decay, and decay product energies for alphas, betas, positrons, electrons, X-rays, and gamma rays. With the optional libraries, RadDecay[®] also generates displays, plots, and printouts for composite beta spectrum data.

Updates to RadDecay[®] v5 include

- Full Microsoft Windows[®] 10 compatibility
- Addition of ICRP-107 nuclide library
- Single nuclides can now be decayed over the selected decay period using a preloaded number of steps: 10, 50, 100, 150, 200, 250, 300, 350, 400, 450, and 500
- The decay chart of a single nuclide now displays the parent and all daughters
- The decay information on the Table and Summary tabs from the single Nuclide Decay Information window can now be displayed on a separate report
- Reports can be saved to Microsoft Excel and Word formats as well as html and text formats

RadDecay[®] conducts decay calculations for a single nuclide or a set of nuclides. For a single nuclide, given an initial activity and decay time by the user, RadDecay[®] will calculate the remaining activity of the nuclide and the activity of its progeny. The decay chain is calculated and displayed for as many as 20 generations. Identical daughter nuclides generated along different branches of the decay chain are alternately combined and displayed. Decay chain and decay curves can be readily displayed and printed. Users can display information by clicking on any nuclide in the displayed decay chain.

RadDecay[®] will also perform decay calculations for a set of nuclides and generates a summary report. The user also has the option to set the minimum activity reported. RadDecay[®] searches its library and reports the corresponding nuclides for photons, alphas, betas, electrons, or positrons within user defined energy and half-life ranges.

RadDecay[®] is compatible with Microsoft Windows[®] 10, 8/8.1, 7, Vista[®], and XP[®]. For exporting results to Microsoft Excel[®] and Word[®], Microsoft Office[®] 2003 or newer is required. Complete installation may require up to 30MB of hard disk space.

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