

29 One of the reactions that can take place in a nuclear reactor is given by the equation shown.



The table shows data about the nuclei and the particle.

nucleus or particle	mass/u
U-235	235.044
Ba-141	140.914
Kr-92	91.926
${}^1_0\text{n}$	1.00863

How much energy is released when one nucleus of uranium-235 undergoes this reaction?

- A** $2.79 \times 10^{-11}\text{ J}$ **B** $3.29 \times 10^{-10}\text{ J}$ **C** $1.68 \times 10^{16}\text{ J}$ **D** $1.98 \times 10^{17}\text{ J}$

