isomer shift

in Mössbauer spectroscopy

Measure of the energy difference between the source (E_s) and the absorber (E_a) transition. The measured Doppler velocity shift, δ, is related to the energy difference by

$$E_a - E_s = \frac{\delta\, E_\gamma}{c}$$

where E_γ is the Mössbauer gamma energy and c is the speed of light in vacuum.

Source:
PAC, 1976, *45*, 211 *(Nomenclature and Conventions for Reporting Mossbauer Spectroscopic Data)* on page 214