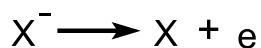


electron affinity, E_{ea}

Energy required to detach an electron from the singly charged negative ion (energy for



the process $\text{X}^- \longrightarrow \text{X} + \text{e}$). The equivalent more common definition is the energy released ($E_{\text{initial}} - E_{\text{final}}$) when an additional electron is attached to a neutral atom or molecule.

Source:

Green Book, 2nd ed., p. 20

PAC, 1994, 66, 1077 (*Glossary of terms used in physical organic chemistry (IUPAC Recommendations 1994)*) on page 1109

PAC, 1991, 63, 1541 (*Recommendations for nomenclature and symbolism for mass spectroscopy (including an appendix of terms used in vacuum technology)*). (*Recommendations 1991*) on page 1546