

CORRIGENDUM

Electron attachment lineshapes, cross sections and rate constants at ultra-low energies in several halomethyl and haloethyl molecules

S H Alajajian, M T Bernius and A Chutjian 1988 *J. Physics B: At. Mol. Opt. Phys.* 21 4021-4033

During use of these data in a recent publication by Sunagawa and Shimamori (1995), it was brought to our attention that the cross section for electron attachment to $\text{CHBr}_2\text{CHBr}_2$ was not explicitly stated. The two segments of cross section $\sigma_A(\epsilon)$ from Table 2 have to join smoothly at electron energy $\epsilon = 0.060$ eV where the experimental slope γ changes from 8.32×10^2 eV to 0.166 eV. The proper form is:

$$\sigma_A(\epsilon) = N\{a\epsilon^{-0.5} + e^{-\epsilon^2/\lambda^2} + e^{-\epsilon/\gamma_1}\}, \text{ for } 0 < \epsilon \leq 0.060 \text{ eV}$$

$$\sigma_A(\epsilon) = 0.698 N e^{-\epsilon/\gamma_2}, \text{ for } 0.060 < \epsilon \leq 0.160 \text{ eV}$$

Values of the parameters a , λ , γ_1 , and γ_2 are given in Table 2 (use $\gamma_1 = 8.32 \times 10^2$ eV, and $\gamma_2 = 0.166$ eV). The value of the normalization constant N was derived from the measured rate constant by Sunagawa and Shimamori of 1.2×10^7 cm³/see, and is $N = 1.671 \times 10^{14}$ cm². From Fig. 1 one sees good agreement between the two sets of data.

We point out two other typographical errors in Table 2: the entry 0.41^h should read 0.41, and the entry 0.0542 should read 0.113.

Reference

Sunagawa T and Shimamori H 1995 *Int J Mass Spectrometry Ionic Processes* 00, 0000 (in press).

Figure Caption

Comparison of present attachment cross sections (—) with the microwave-cavity pulsed radiolysis method (—). Error limits in present data are shown, and cross sections for energies below 0,005 eV are extrapolated (·····).

