Supplementary Material

Doubly protonated benzene in the gas phase

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Figure S1. CA (a), CE(O₂) (b), and CE(Xe) (c) spectra of C₆H₈²⁺ generated from 1.
Figure S2. MI/CA (a) and MI/CE (b) spectra of daughter ion $\text{C}_6\text{H}_6^{2+}$ arising from metastable $\text{C}_6\text{H}_8^{2+}$ generated from 1.
Figure S3. CA (a) and CE (b) spectra of the C₆H₆²⁺ ion generated from EI of benzene.