Supporting Information: Effects of Halogen Substitution on the Properties of Eight- and Nine-Vertex *closo*-Boranes

Clémence Corminboeuf, ^{*a,b} Matthew D. Wodrich,^a R. Bruce King,^a and Paul von Ragué Schleyer^{*a}

^aDepartment of Chemistry, Center for Computational Chemistry, University of Georgia, Athens, Georgia, USA 30602.

^bLaboratory for Computational Molecular Design, Ecole Polytechnique Fédérale de Lausanne (EPFL), 1015 Lausanne, Switzerland.

To whom correspondence should be addressed. E-mail: <u>clemence.corminboeuf@epfl.ch</u>, <u>schleyer@chem.uga.edu</u>

Dedicated to Kenneth Wade on the occasion of his 75th birthday.

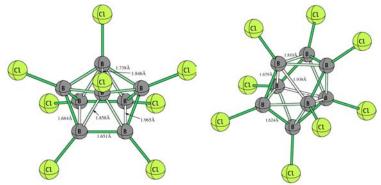


Figure S1. Structures of the $B_8Cl_8^{2-}$ species: C_{2v} (left) and D_{2d} (right).

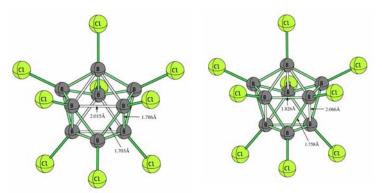


Figure S2. Structures of the $D_{3h} B_9 Cl_9^{2-}$ (left) and $D_{3h} B_9 Cl_9$ (right).