

"Are 1,2-Dihydrodiazetes Aromatic? An Experimental and Computational Investigation"  
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Abstract: A thorough experimental and computational investigation of the aromaticity of the 1,2-dihydrodiazete ring system was carried out. The X-ray crystal structure of 1,2-dihydrodiazete **6** is reported, and the alkene-like reactivity of compound **6** is described. The compound's structure and reactivity suggest that **6** is not aromatic. This conclusion is corroborated by computational results on **6** and related compounds including homodesmotic reactions to test for aromatic stabilization, NICS calculations, and NBO calculations. Compound **6**, and 1,2-dihydrodiazetes in general, are concluded to be strained heterocycles with no indication for aromatic stabilization.