

## SUPPLEMENTARY MATERIAL

### Insights in the dissociative ionization of glycine by PEPICO experiments

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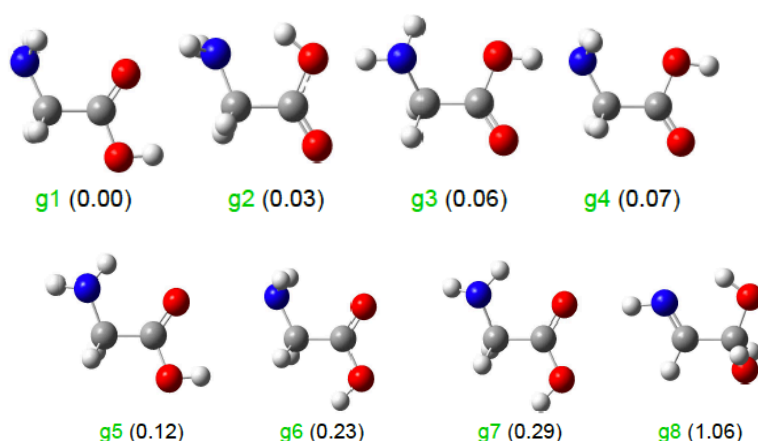


Figure 1: The structure of the eight conformers of neutral glycine. The number in brackets are the energy (eV) of each structure relative to most stable conformer (g1) calculated at the B3LYP/6-311++G(d,p) level <sup>32</sup>.

### Calculations of the outer valence ionization energies (eV) of glycine.

Table 1: Outer valence ionization energies (eV) of glycine calculated using the OVGf models, for conformers g1-g4.

Orbital	Conformer g1 pole strength	Conformer g2 (pole strength)	Conformer g3 (pole strength)	Conformer g4 (pole strength)
16a' (HOMO)	10.0(0.93)	10.0(0.91)	9.70(0.91)	10.0(0.91)
15a'	11.4(0.91)	11.4(0.91)	12.3(0.90)	11.7(0.90)
4a''	12.4(0.91)	12.3(0.90)	11.9(0.91)	11.5(0.91)
3a''	13.6(0.90)	13.9(0.92)	13.7(0.92)	13.9(0.92)
14a'	14.8(0.92)	14.7(0.91)	14.6(0.92)	13.7(0.91)
13a'	15.1(0.92)	15.1(0.90)	14.9(0.92)	15.4(0.91)
2a''	15.8(0.91)	15.8(0.90)	15.8(0.90)	15.8(0.91)
12a'	17.7(0.91)	16.7(0.91)	17.3(0.90)	16.7(0.91)
11a'	17.2(0.90)	17.9(0.91)	17.8(0.91)	18.0(0.90)
1a''	17.7(0.91)	18.3(0.90)	17.6(0.91)	18.8(0.91)