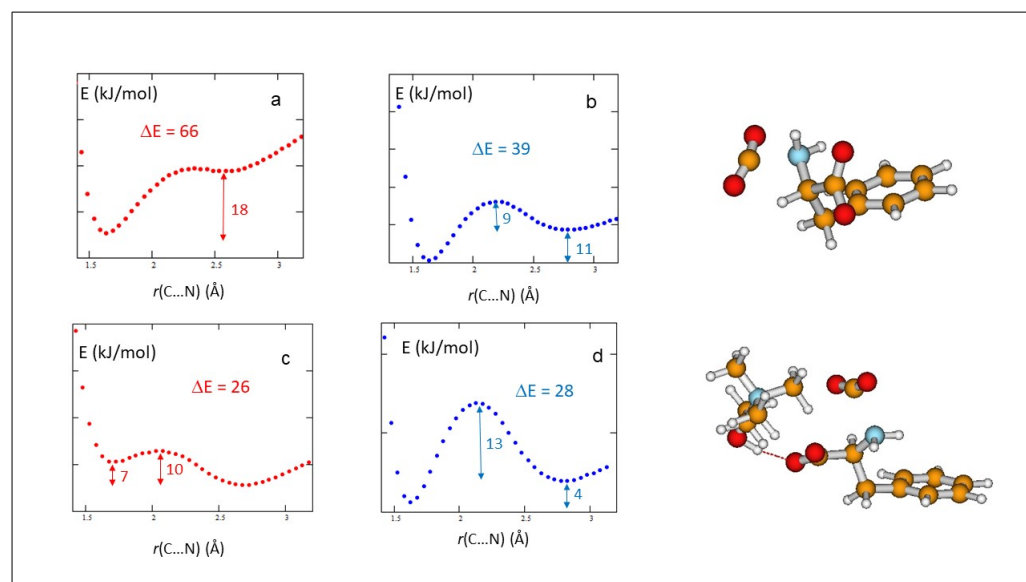
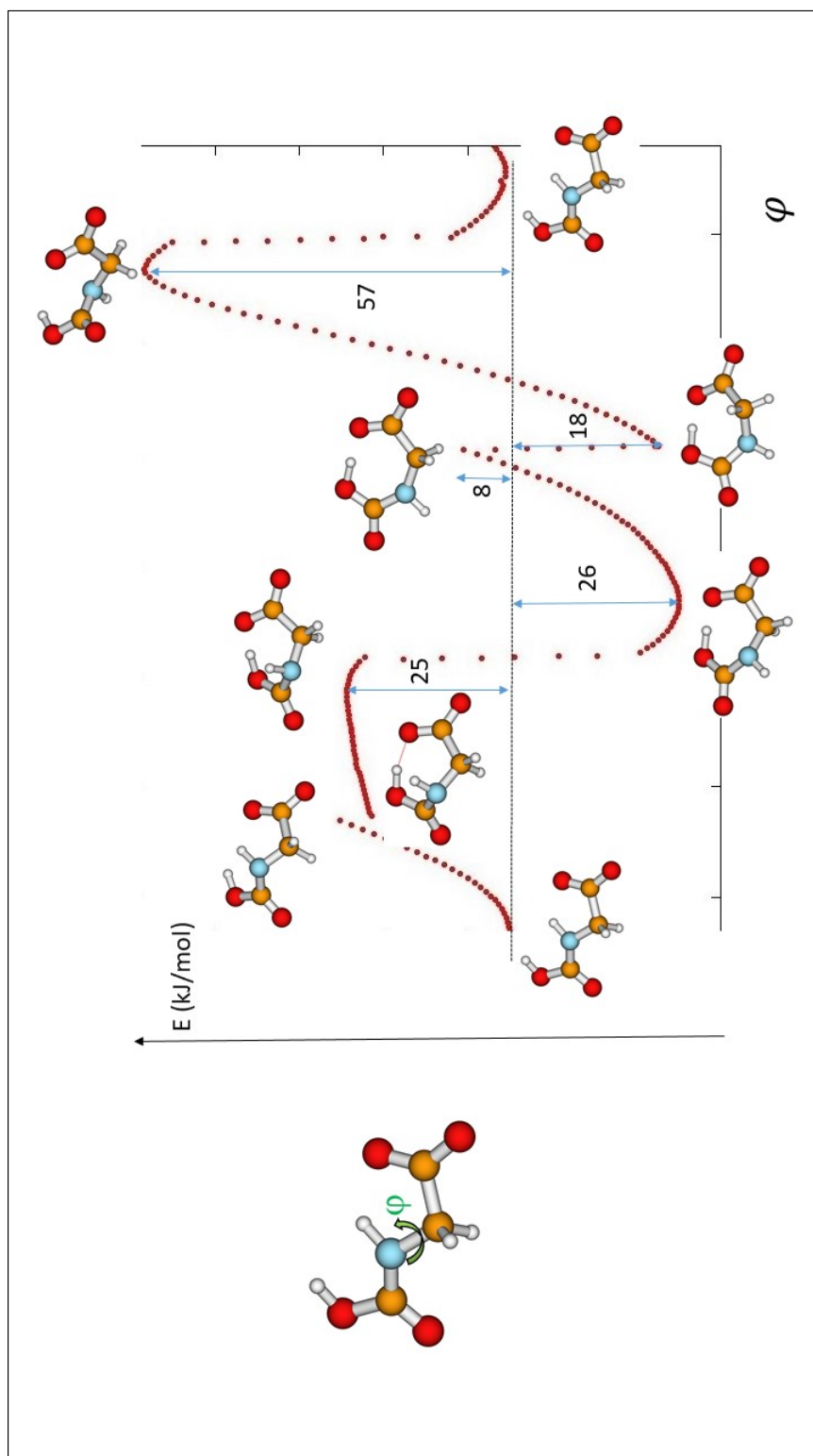


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## Supplementary Materials


$$\Delta E \text{ is calculated as } E_{[Phe-CO_2]^-} - (E_{[Phe]^-} + E_{CO_2})$$



**Figure S2.** M062X/6-311++G\*\* energy profile in function of the dihedral angle ( $\phi$ ) that describes the torsion about the C-N bond of the [Gly] anion calculated by PCM model. The stationary points localized in the PES scan are reproduced in Figure.