

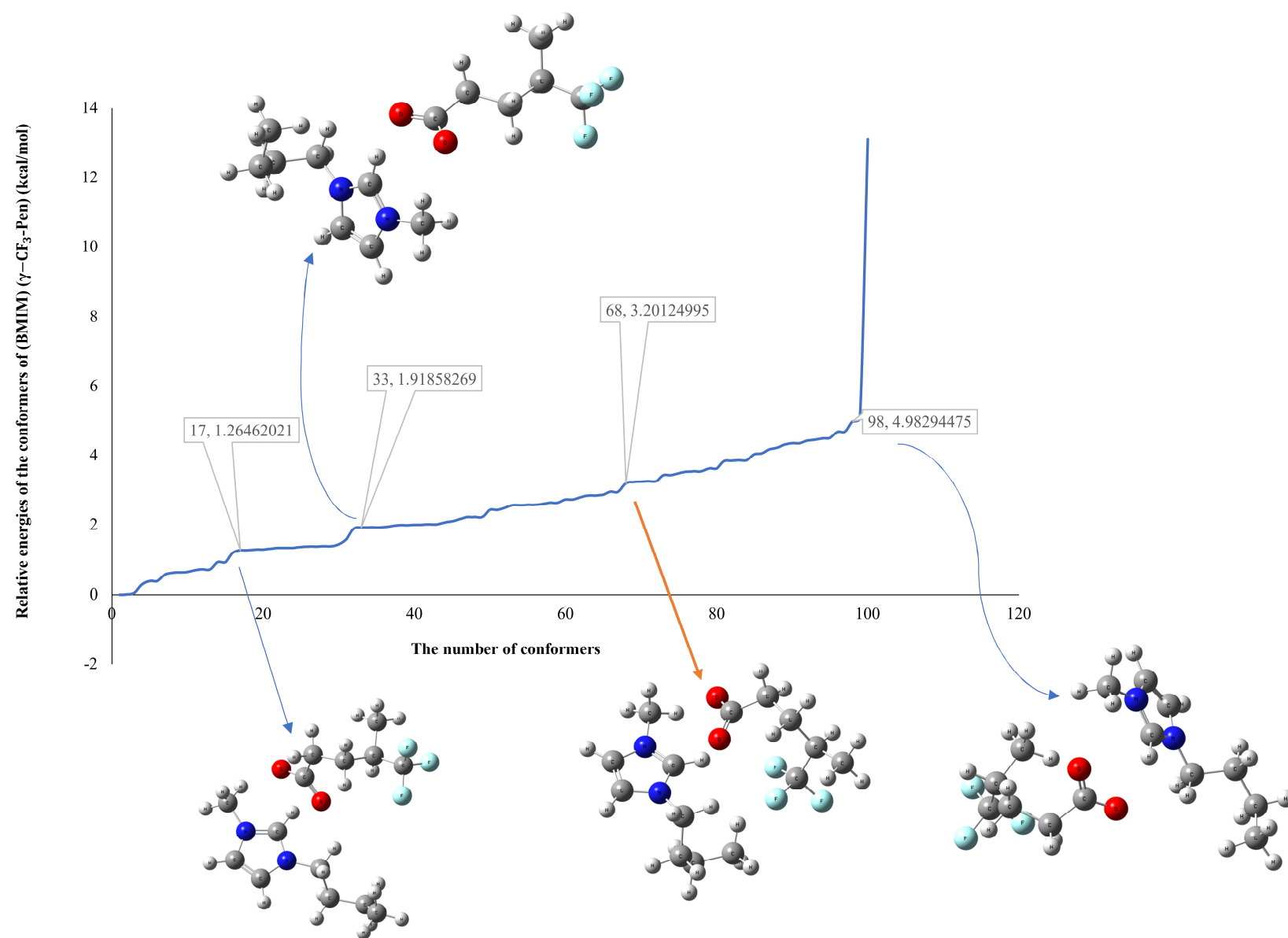


Figure S13. Relative energies of the conformers of (BMIM)(γ -CF₃-Pen) with respect to the most stable conformer

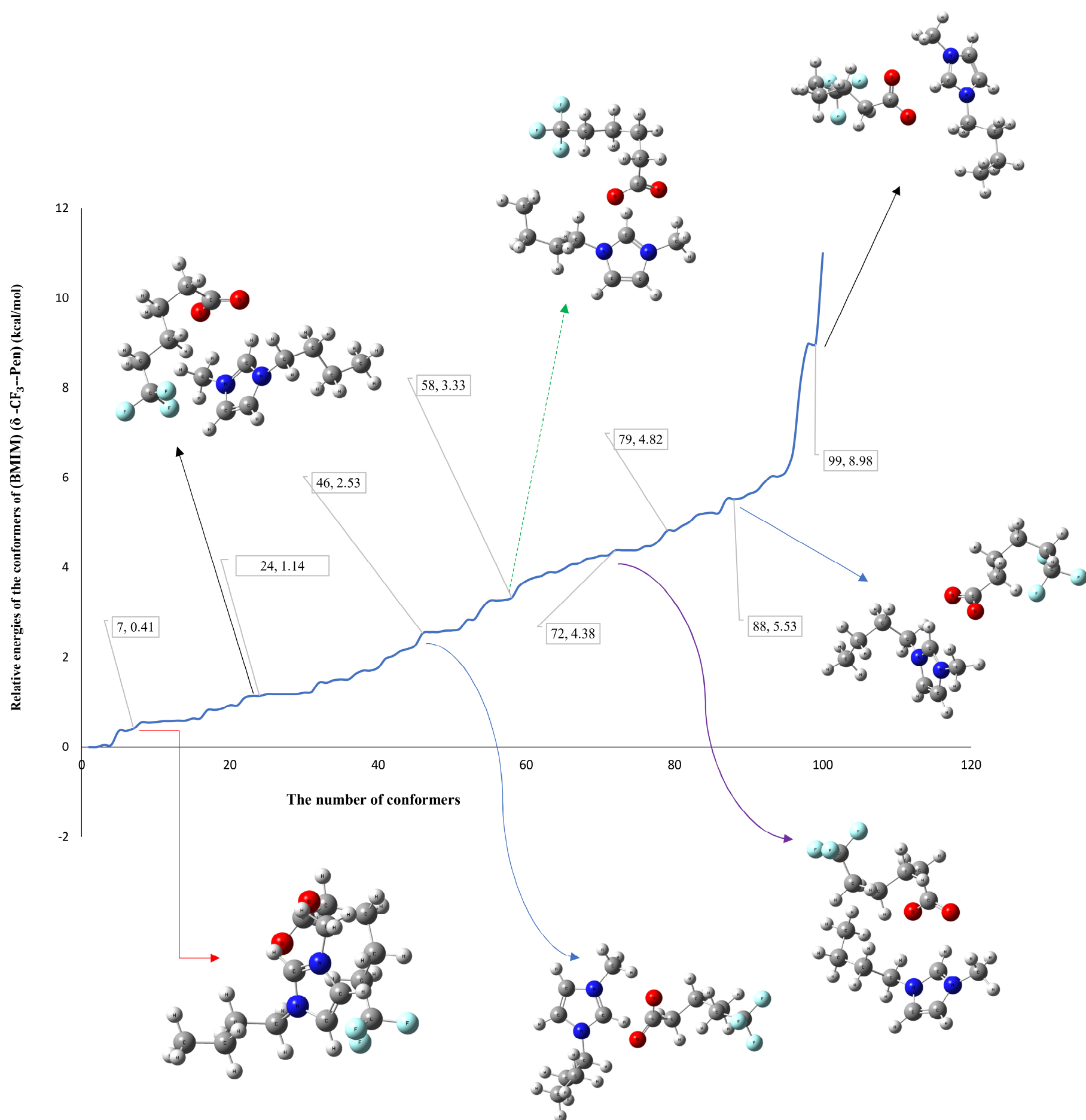


Figure S14. Relative energies of the conformers of (BMIM) (δ -CF₃-Pen) with respect to the most stable conformer

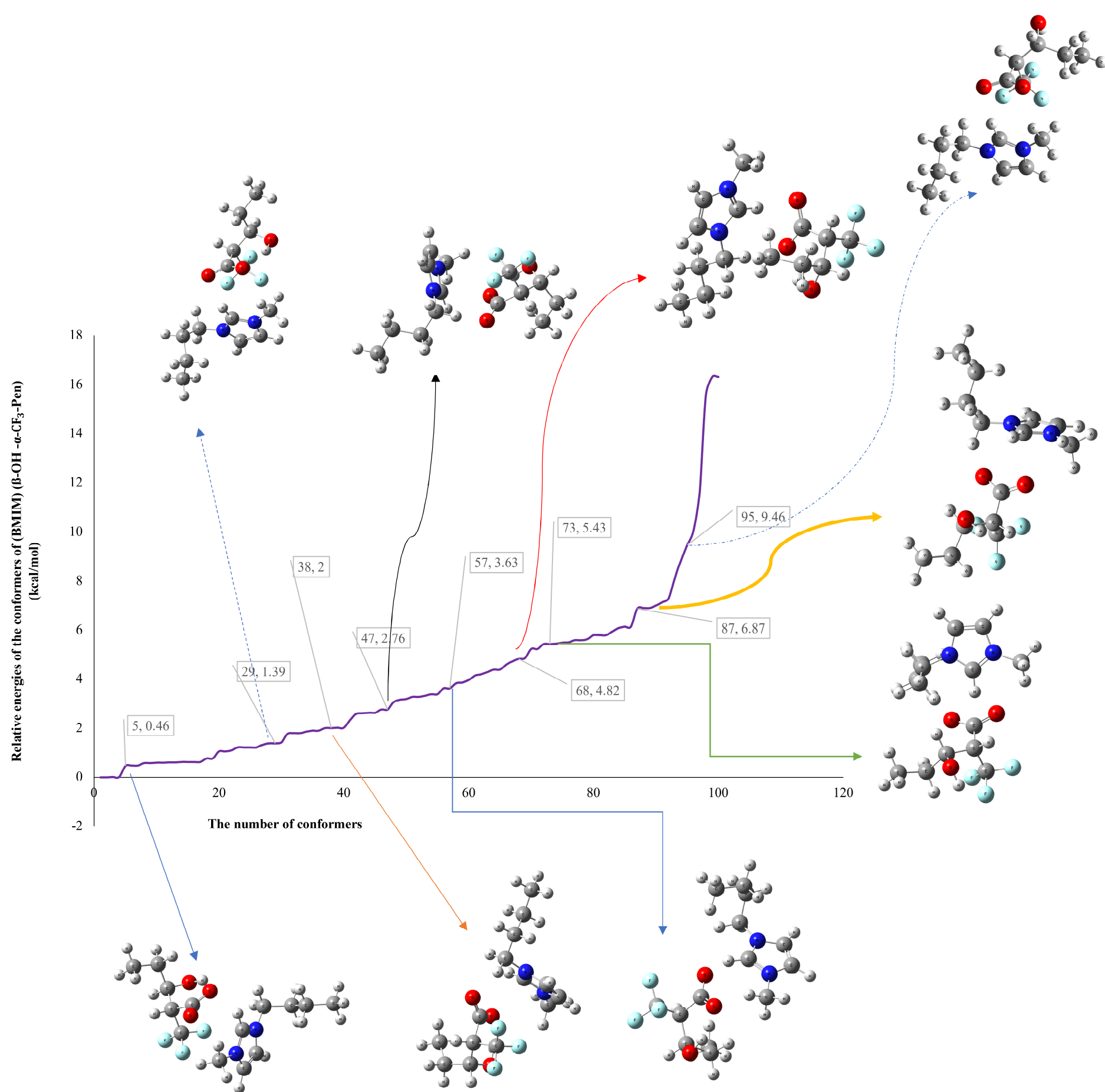


Figure S15. Relative energies of the conformers of (BMIM) (β -OH - α -CF₃-Pen) with respect to the most stable conformer

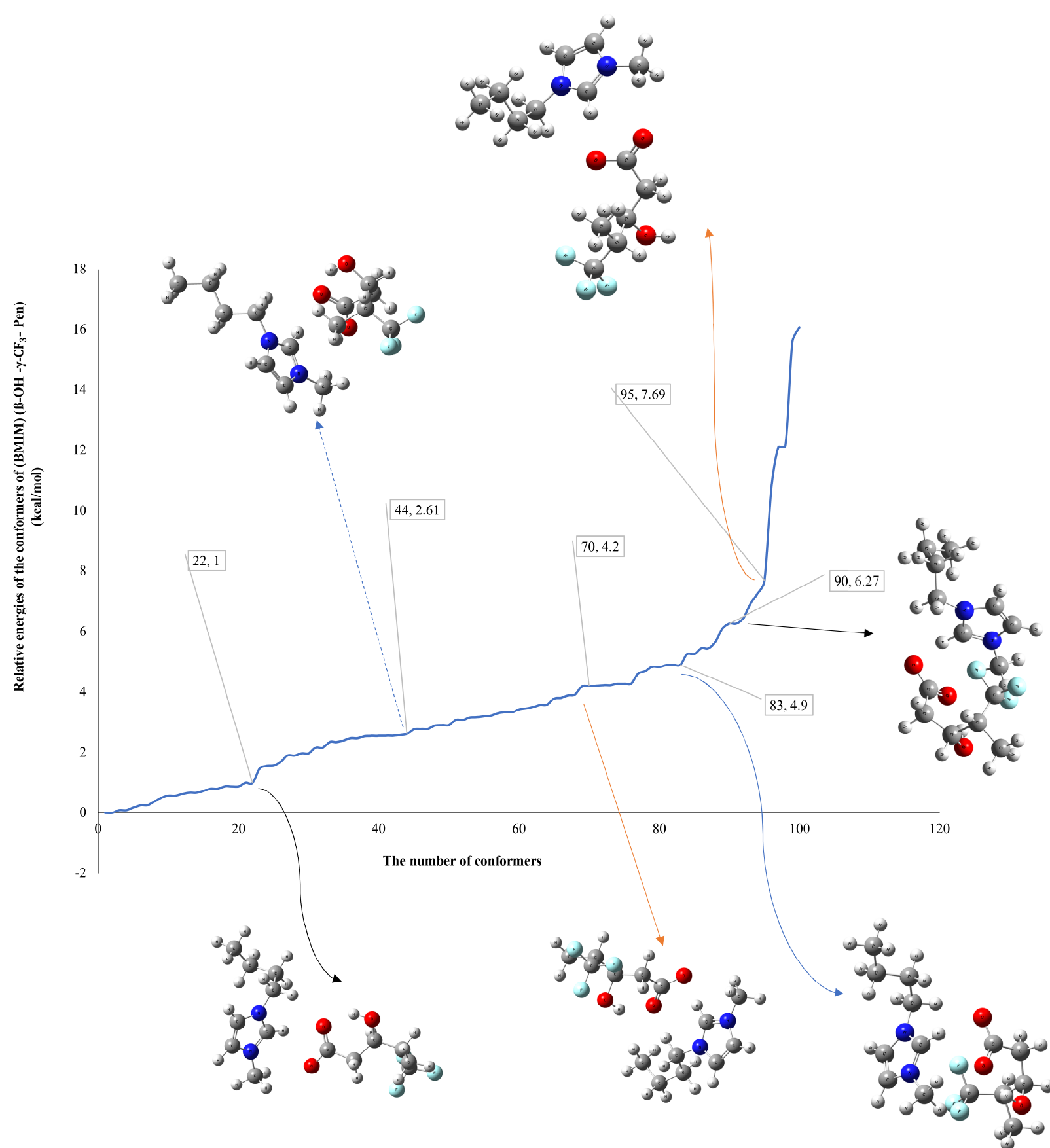


Figure S16. Relative energies of the conformers of (BMIM) (β -OH - γ -CF₃- Pen) with respect to the most stable conformer

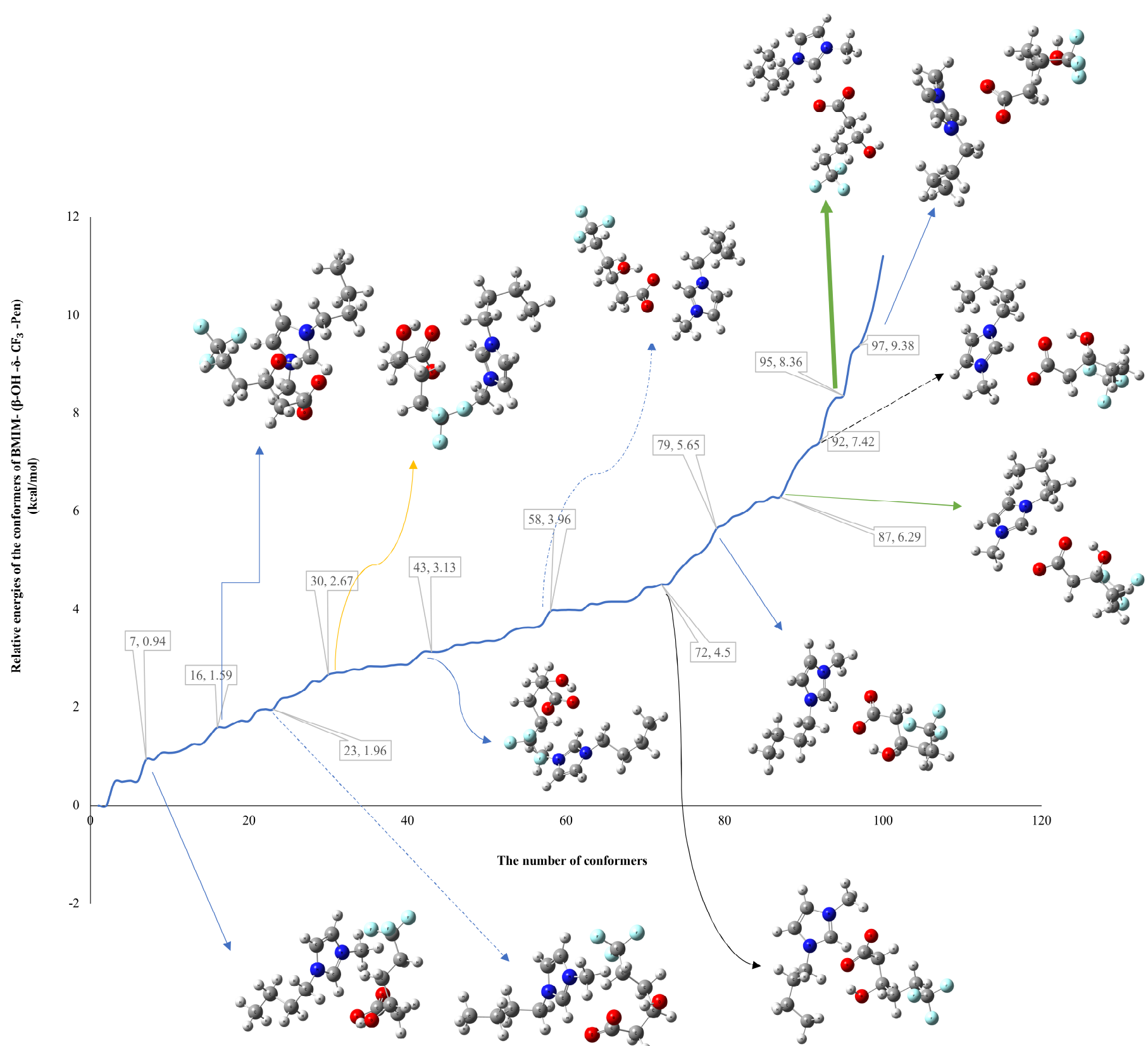


Figure S17. Relative energies of the conformers of (BMIM) (β -OH- δ -CF₃-Pen) with respect to the most stable conformer

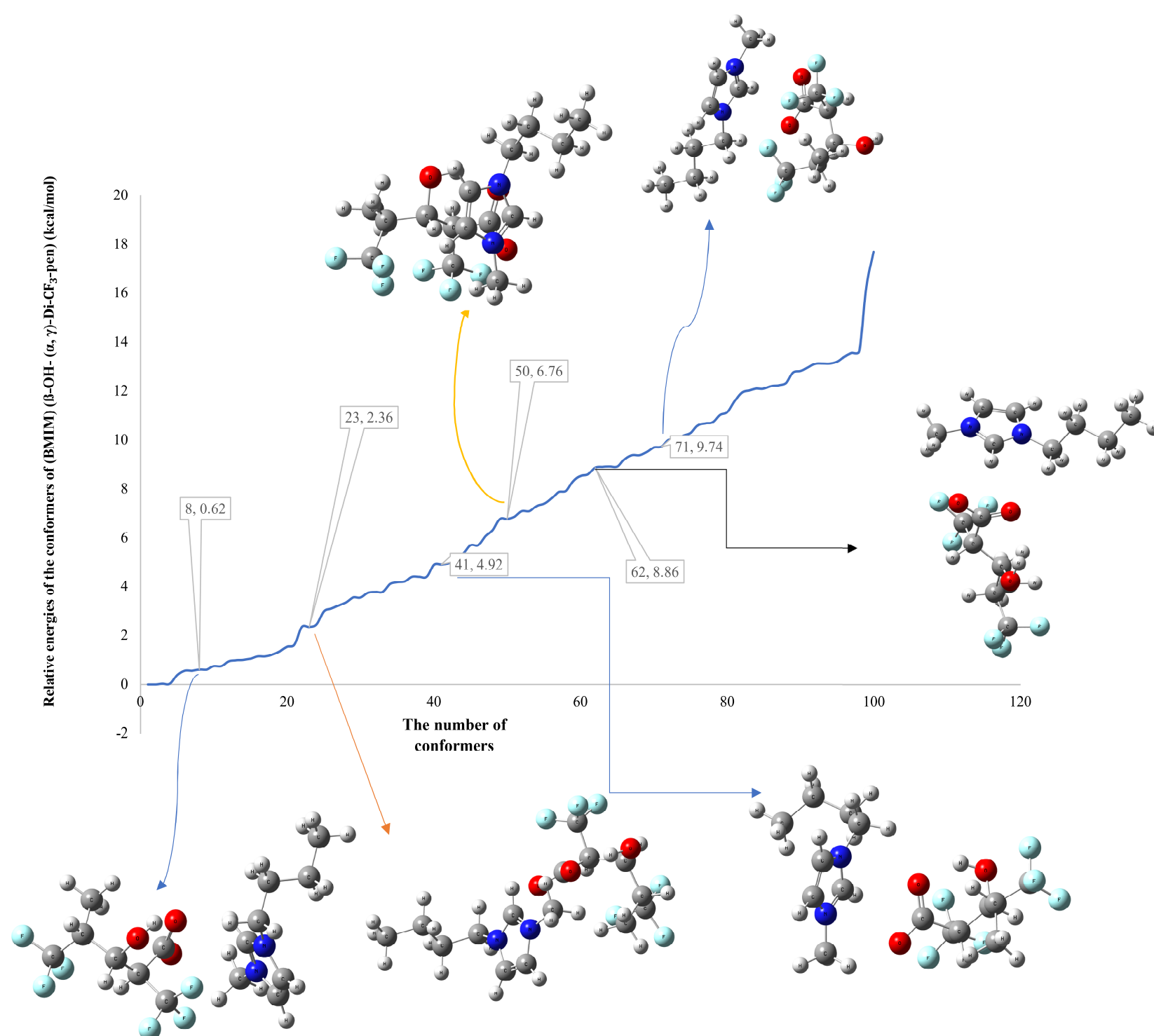


Figure S18. Relative energies of the conformers of (BMIM) (β -OH- (α , γ)-Di- CF_3 -Pen) with respect to the most stable conformer

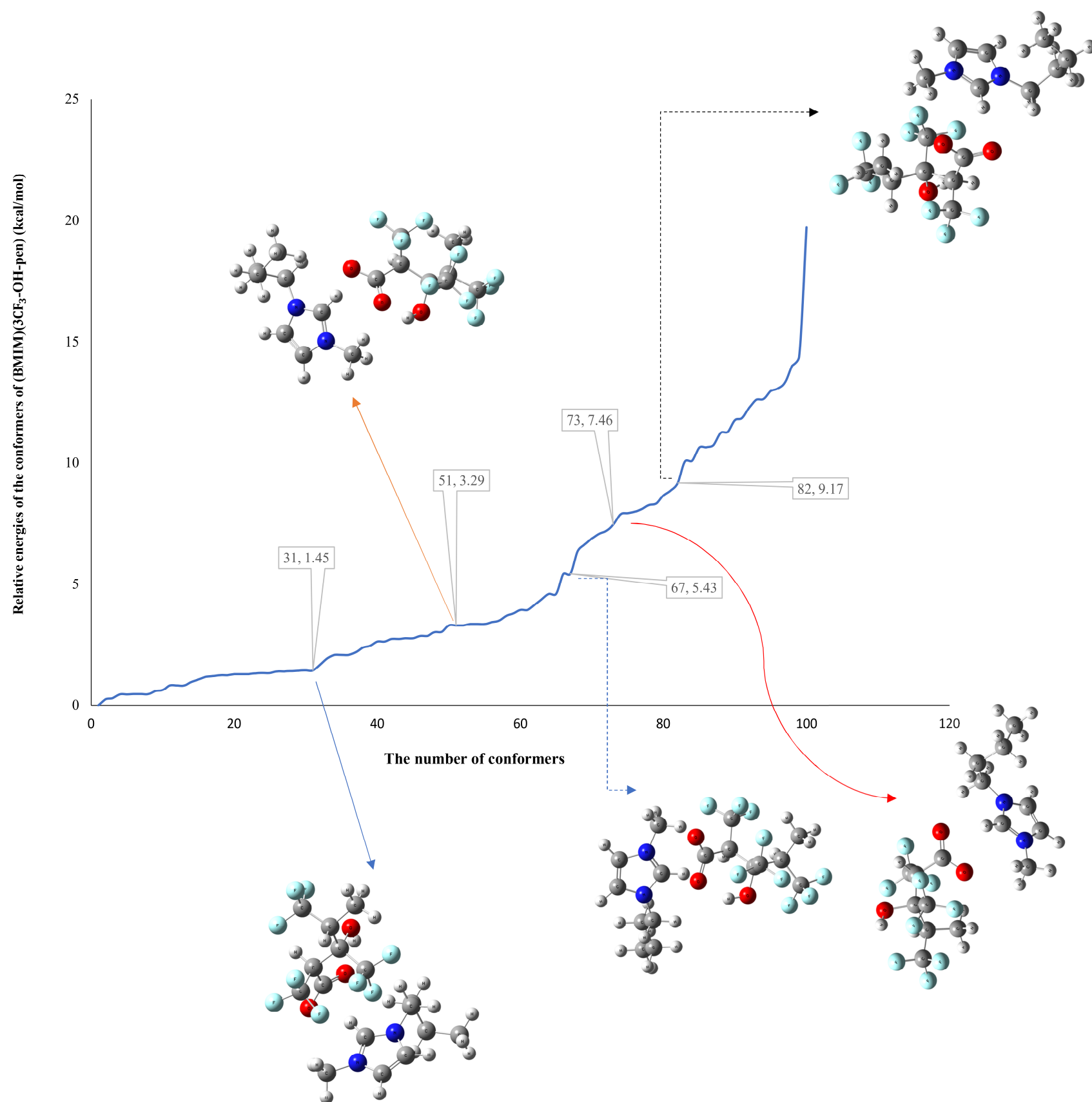


Figure S19. Relative energies of the conformers of (BMIM)(3CF₃-OH-pen) with respect to the most stable conformer

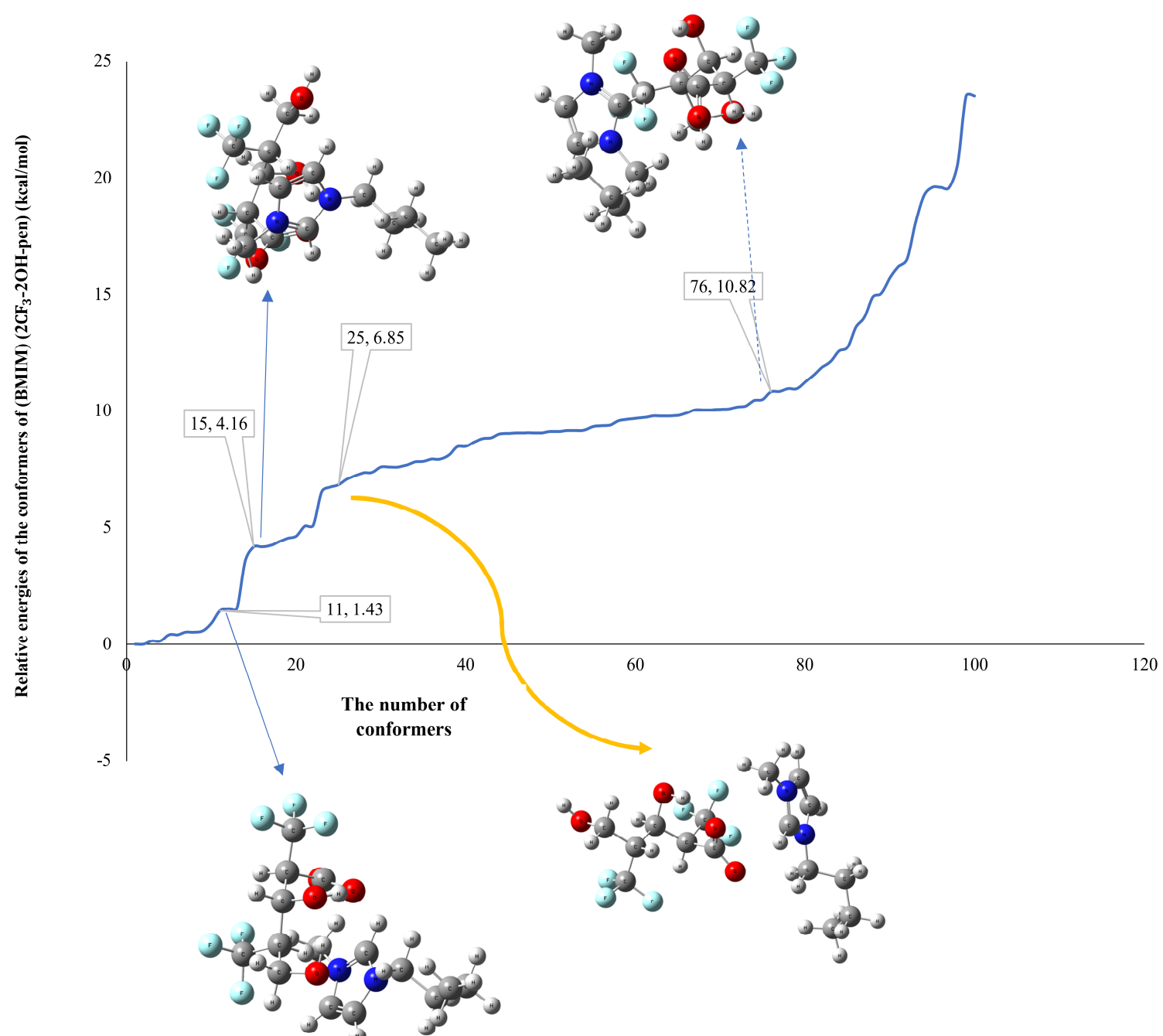


Figure S20. Relative energies of the conformers of (BMIM) (2CF₃-2OH-Pen) with respect to the most stable conformer