CHIRAL RECOGNITION IN NEUTRAL AND IONIC MOLECULAR COMPLEXES

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The behaviour of chiral molecules in the gas phase have been studied. The two pseudoenantiomers of Quinine, have been put intact in the gas phase using laser ablation and characterized using different spectroscopic techniques such as REMPI, LIF, IR-UV double resonance. VCD measurements have been performed in solution. From this comparative study one can conclude that the pseudoenantiomers behave differently both in gas phase and in solution[a].

[a] Ananya Sen, Aude Bouchet, Valeria Lepère, Katia Le Barbu-Debus, D. Scuderi, F. Piuzzi, and A. Zehnacker-Rentien, *J. Phys. Chem. A, 2012, 116 (32), pp 8334-8344*