Synthesize of an Azo Compound: Investigation its Optical Nonlinear Properties and DFT Study

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Abstract

In the present work, a diazonium salt is prepared by a diazonium reaction of sulfamerazine in the presence of aqueous hydrochloric acid and sodium nitrate. Structural confirmation of azo compounds synthesize is achieved by mass spectrometry, infrared spectroscopy, and 1 H, 13 C nuclear magnetic resonance. The sample geometry is derived using Density