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Title: Computational and Matrix Isolation Infrared Spectroscopic Studies of 2-Dehydroacetophenone Radical Authors: Bhagat, Virinder (/jspui/browse?type=author&value=Bhagat%2C+Virinder) Keywords: Photoreactivity Isomers Photochemical Matrix Isolation Issue Date: 20-Nov-2019 Publisher: **IISERM** Abstract: Intramolecular sensitization is one of the important photochemical phenomena, by which the structural and reactivity pattern of the excited state of the molecules can be tuned. The introduction of aryl ketones or the incorporation of heavy atoms such as iodine is some of the popular strategies through which triplet excited states can be accessible that can tune the photoreactivity. This is well known in reactive intermediates like carbenes, nitrenes, etc. but has not been explored in case of radicals. In this respect, we decided to investigate the o-iodoacetophenone, which has

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