

PHOTOCHEMISTRY OF BIACETYL ADSORBED ON ALKALI HALIDE FILMS

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Biacetyl ($(\text{CH}_3\text{CO})_2$) was adsorbed onto sublimated films of alkali halides and irradiated in the region 500 -190 nm. Infrared spectroscopy was used to determine the photolysis efficiency and to characterize the photoproducts, the most dominant of these being CO. The quantum efficiency was determined as a function of irradiation wavelength and surface temperature.