LASER-INDUCED FLUORESCENCE SPCTROSCOPY OF *TERT*- BUTOXY AND 2-BUTOXY RADICALS

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Laser-induced fluorescence (LIF) spectroscopy of *tert*-butoxy and 2-butoxy radicals formed by laser photolysis was investigated in the wavelength range 330-385 nm. For *tert*-butoxy, 13 vibronic bands corresponding to the C-O stretching vibration were assigned to two progressions, ν'_{C-O} is 520$\pm$10 cm^{-1}. Numerous bands remain unassigned. For 2-butoxy, its LIF excitation spectrum consisting of 10 vibronic bands in two progressions were observed for the first time. Two different vibrational frequencies were derived to be 560$\pm$5 cm^{-1} and 610$\pm$5 cm^{-1}, respectively. The former corresponds to the C-O stretching vibration.

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