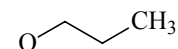


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LIF C_3H_7O

1-Propoxy

 C_s (*anti*)
 C_1 (*gauche*)

1-Propoxy radicals were generated in a supersonic free-jet expansion by the UV laser photolysis of propyl nitrite in a stream of helium. Five bands of the $\tilde{B} - \tilde{X}$ system were studied by laser-induced fluorescence. Two bands have one type of rotational structure which by comparison with predictions from quantum chemical calculations have been assigned to the *anti* conformer. The other three bands have a different type of rotational structure and are likewise assigned to the *gauche* conformer. Rotational constants and spin-rotation constants have been determined but no detailed structural information obtained.

Gopalakrishnan, S., Carter, C.C., Zu, L., Stakhursky, V., Tarczay, G., Miller, T.A.: J. Chem. Phys. **118** (2003) 4954.