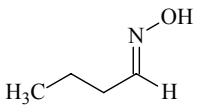
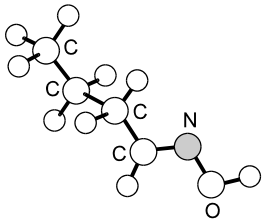
588 **C_4H_9NO** **(*E*)-Butyraldehyde oxime** **C_1**

MW, *ab initio* calculations

(*E*)-Butanal oxime





Four rotational conformers were found to exist in the gas phase. Two of them belong to the (*E*)-geometrical isomer and the other two to the (*Z*)-geometrical isomer. The rotational spectrum of one of two conformers of (*E*)-isomer shown in the figure was analyzed, and its conformational structure was discussed by referring to the rotational constants and MP2/6-31G** calculations.

Kuze, N., Suzuki, E., Siratani, M., Amako, T., Okuda, T., Kondo, G., Kuriyama, T., Matsubayashi, M., Sakaizumi, T., Ohashi, O.: J. Mol. Spectrosc. **191** (1998) 1.