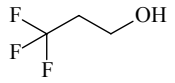
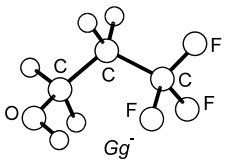
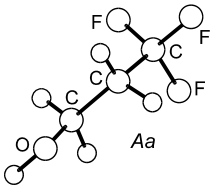
**378** **$C_3H_5F_3O$** **3,3,3-Trifluoro-1-propanol** **$C_1$ ($Gg^-$)**
MW **$C_s$ ($Aa$)**




Two of five possible conformers, $Gg^-$ and $Aa$, were assigned: The former is stabilized by a six membered intramolecular hydrogen bond formed between one of the fluorine atoms and the hydrogen atom of the hydroxyl group. No such interaction is possible in $Aa$, in which both the O–C–C–C and H–O–C–C chains of atoms are in the *anti* conformation. The internal hydrogen bond is weak, since the $Gg^-$ form is only 3.5(10) kJ mol$^{-1}$ more stable than $Aa$. The weak intramolecular hydrogen bond is also evident from the gas-phase IR spectrum of the O–H stretching vibration.




Marstokk, K.-M., Møllendal, H.: Acta Chem. Scand. **53** (1999) 202.