
The dipole moments for the inversion transitions, $\nu_1$ and $\nu_2$ were taken from the results from Botschwina et al. 1984, Chem. Phys. Lett. 102, 299; the dipole moments for $\nu_3$ and $\nu_4$ are not available and were estimated based on the available infrared intensity ratios (Colvin et al. 1983, J. Chem. Phys. 79, 1551 ) with the assumption that infrared intensities are proportional to the square of dipole moments.