Ethyl formate is found in two conformers, trans and gauche. The trans form is denoted by state 0 while the gauche form is state 1. The dipoles and rotational constants given are for the lower energy trans form which is about 60 ± 20 cm\(^{-1}\) below the gauche form. There is no evidence that the two forms interact in the ground state. Lines and dipoles were taken from: J. M. Riveros and E. B. Wilson, 1967, J. Chem. Phys. 46, 4605. R. Meyer and E. B. Wilson, 1970, J. Chem. Phys. 53, 3969. J. Demaison, D. Boucher, J. Burie, and A. Dubrulle, 1984, Z. Naturforsch. 39a, 560.

The gauche form has the following dipole moments \(\mu_a = 1.44\) D, \(\mu_b = 1.05\) D, \(\mu_c = 0.25\) D.