Species Tag:	48011	Name:	CH3OOH
Version:	1		Ground
Date:	Dec. 2005		0^+, 0^-, A, E States
Contributor:	B. J. Drouin		
Lines Listed:	46191	Q(300.0)=	106466.2980
Freq. (GHz) <	1800	Q(225.0)=	68323.1834
Max. J:	50	Q(150.0)=	36346.9932
LOGSTR0=	-11.0	Q(75.00)=	12054.7879
LOGSTR1=	-7.0	Q(37.50)=	3811.4277
Isotope Corr.:	-0.007	Q(18.75)=	1139.3855
Egy. (cm^{-1}) >	0.0	Q(9.375)=	339.0903
μ_a =	0.606 / 0.703	A=	42828.738
μ_b =	0.071 / 0.133	B=	10500.288
μ_c =	0.5	C=	9055.050

The frequencies and dipole moment were taken from: M. Typlewski, T. -K. Ha, R. Meyer, A. Bauder, C. E. Blom, 1992, J. Chem. Phys. **97**, 9. The 'c' type transition dipole moment is unknown so a 0.5 D dipole was assumed in the calculations. A $K_a = 6 \leftarrow 7$ Q branch between the 0^+ and 0^- states was reassigned for splittings due to methyl torsion (A/E) rather than asymmetry splittings. This results in an improved global fit to the four states.

The state specific quantum numbers, v = 0-5 correspond to the following symmetries:

inversion	*I.R.*	v	
0^+	A	0	
0^+	E	1,2	
0^-	A	3	
0^-	E	4,5	