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The Submillimeter-Wave Rotational Spectrum of Isopropyl Alcohol

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Abstract: The submillimeter-wave spectrum of the ν_{em} trans isopropyl alcohol was studied in the frequency range from 240 to 480 GHz. More than 170 lines were assigned to ground state transition. The identification of the high J transitions was checked by centrifugal distortion analysis. The frequencies of all transitions were least squares fitted to the Watson's Hamiltonian, including two P^8 terms. The ground-state rotational constants are (in MHz) $A = 8489.0150$, $B = 8041.9182$, $C = 4765.2326$, which yield an asymmetry parameter $\kappa = 0.75986663$.

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