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| Source | State | State | Crossing point (Å) | Notes |
| 21ZhLiLiGu | 2+ | b4 | 2.06 | Between v = 3 and v = 4 |
| 2+ | a4- | 1.75 |  |
| 08BrHaHo | 2+ | a4- | 1.750 | At 34338 cm^-1 wrt X state minimum |
| 2+ | 2- | 1.938 | At 36274 cm^-1 wrt X state minimum |
| 2+ | b4 | 2.063 | At 37206 cm^-1 wrt X state minimum |
| 87BrHi | 2+ | a4- | 1.64044935286 (3.10 a0) | 0.26 eV above the A state minimum, between v=1 and v=2 |
| 2+ | 2- | 1.8521202371 (3.50 a0) | Around v = 2, 0.50 eV above A state minimum |
| 2+ | b4 | 2.01087340028  (3.80 a0) | 0.58 eV above A state minimum |
| 00LeSu | 2+ | a4- | 1.767452  (3.34 a0) | 3775 cm-1 |
| 2+ | 2- | 1.95796  (3.70 a0) | 5706 cm-1 |
| 2+ | b4 | 2.095542  (3.96 a0) | 6804 cm-1 |
| 95Ma | 2+ | a4- | 1.714534  (3.24 a0) |  |
| 2+ | 2- | 1.899746  (3.59 a0) |  |
| 2+ | b4 | 2.042624  (3.86 a0) |  |
| 98Mc | 2+ | a4- |  | 2000 cm-1 above A state potential between v= 0 and v=1. |
| 01ReOr | 2+ | a4- | 1.756 (3.319 a0) | Just above turning point of v=1 level. Larger than 3.10 estimate of 3.10 bohr |
| 2+ | 2- | 1.949 (3.683 a0) | Between v=2 and v=3 closer to v=2 |
| 2+ | b4 | 2.080 (3.931 a0) | Just above turning point of v=3 level |
| 85SeWeRoRe | 2+ | a4- | 1.64044935286 (3.10 a0) | 500 cm-1 relative error |
| 16VaNs | 2+ | a4- | 1.76517642 (3.3357 a0) |  |
| 2+ | 2- | 1.94139243 (3.6687 a0) |  |
| 2+ | b4 | 2.0838999  (3.938 a0) |  |
| 97WhOrAsIs | 2+ | a4- | 1.75 |  |