

Table II. Wavenumbers and isothermal pressure derivatives $(d\nu/dP)_T$ of the high frequency Raman peaks in NH_4Cl and NH_4Br at 296 K

| NH_4Cl | | NH_4Br | | Assignment |
|----------------------------------|--|----------------------------------|---|--------------------------------|
| $\nu \text{ cm}^{-1}$ (1 atm) | $(d\nu/dP)_T$ $\text{cm}^{-1} \text{ kbar}^{-1}$ Phase V | $\nu \text{ cm}^{-1}$ (1 atm) | $(d\nu/dP)_T$ $\text{cm}^{-1} \text{ kbar}^{-1}$ Phase II | |
| 1082 | -2.0 | 1110 | -1.5 | $\nu_4 - \nu_6$ |
| 1335 | -2.7 | 1354 | -1.4 | $\nu_4(\text{TO}) - \nu_7$ |
| 1404(a) | -0.20 | 1402(a) | -0.27' | $\nu_4(\text{TO})(\text{F}_2)$ |
| 1430(a) | -0.52 | 1426(a) | -0.62 | $\nu_4(\text{LO})(\text{F}_2)$ |
| 1447(a) [negative] | | (1445) | [negative] | ν_4 |
| 1710 | +0.23 | 1690 | +0.25 | $\nu_2(\text{E})$ |
| 1765 | +1.5 | 1725 | +0.47 | $\nu_6 + \nu_4$ |
| 2008 | +1.2 | 1959 | +0.56 | $\nu_2 + \nu_6$ |
| 2823 | +0.76 | 2807 | -0.25 | $2\nu_4$ |
| 3048(a) | | 3036(a) | [negative] | $\nu_2 + \nu_4$ |
| 3055 [negative] | | 3055 | [negative] | $\nu_1(\text{A}_1)$ |
| (3100)(a) | | | | |
| (3135)(a) | | 3075(a) | | |
| 3150(a) | -1.3 | 3135(a) | -0.37 | $\nu_3(\text{F}_2)$ |
| (3230)(a) | | 3199(a) | | $\nu_1 + \nu_5(\text{TO})$ |

(a) Frequencies which were calculated from fitting the Raman intensity to uncoupled damped oscillators.

() Values in parentheses have large uncertainty.