

### Supplementary information

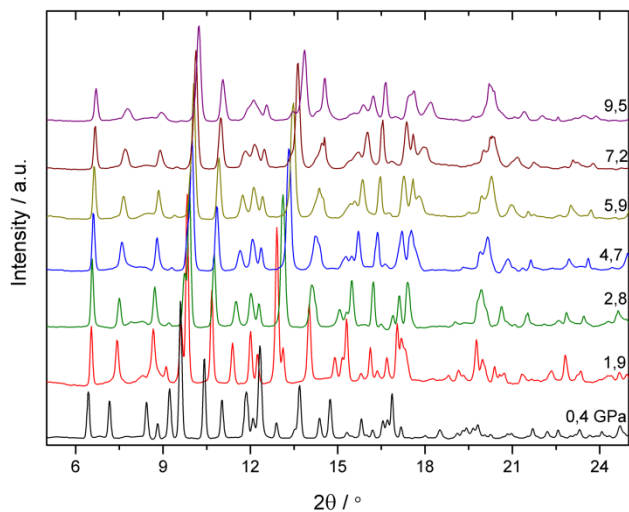


Fig. S1 X-ray diffraction powder patterns of *N*-acetyl-L-cysteine at selected pressures.

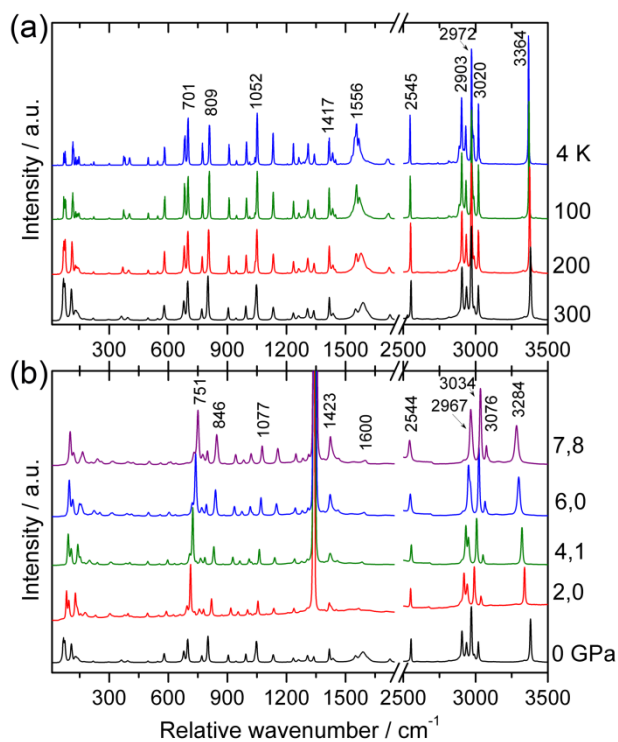


Fig. S2 Raman spectra of *N*-acetyl-L-cysteine on cooling (a) and on increasing pressure (b).

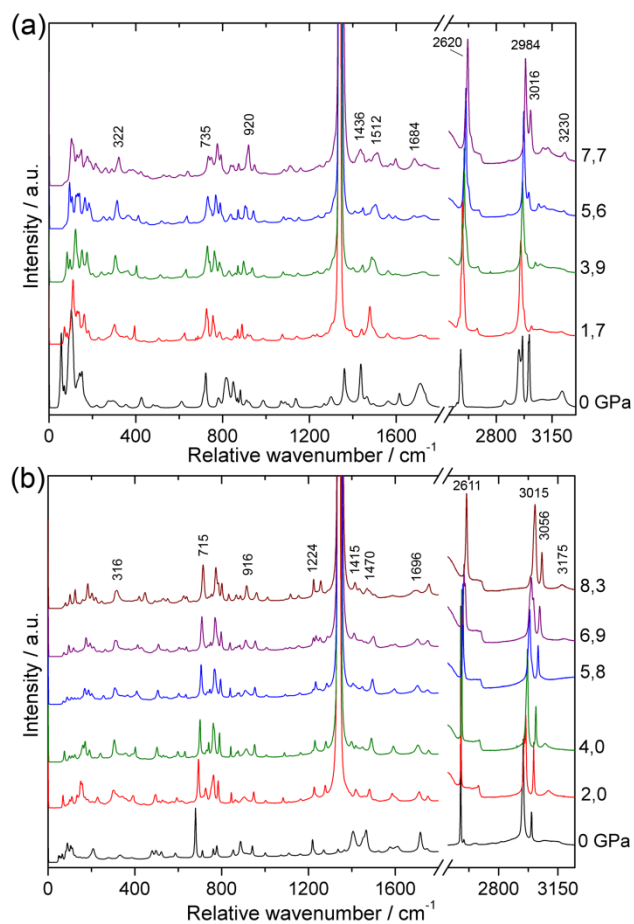


Fig. S3 Raman spectra of bis(DL-cysteinium oxalate) (a) and DL-cysteinium semioxalate (b) on increasing pressure