**Table. V:** Factor group analysis of the series Sr2Mn1-xNixTeO6 with (x = 0.25, 0.5 and 0.75) at room temperature (Kroumova *et al.,* 2003).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| symmetry | Atom | Site | Ag | Au | Bg | Bu | Modes |
| *P*21/*n* | Te | 2b |  | 6 |  | 6 | M = 6Au + 6Bu |
| Mn,Ni | 2a |  | 6 |  | 6 | M = 6Au + 6Bu |
| Sr | 4e | 3 | 6 | 3 | 6 | M = 3Ag + 6Au + 3Bg + 6Bu |
| O1 | 4e | 3 | 6 | 3 | 6 | M = 3Ag + 6Au + 3Bg + 6Bu |
| O2 | 4e | 3 | 6 | 3 | 6 | M = 3Ag + 6Au + 3Bg + 6Bu |
| O3 | 4e | 3 | 6 | 3 | 6 | M = 3Ag + 6Au + 3Bg + 6Bu |
| ƬTotal = 48A + 48B = 96 Ƭacustic = Au + 2Bu  ƬRaman = 12Ag + 12Bg ƬInfrared = 36Au + 36Bu | | | | | | |
| *I*2/*m* | Te | 2a |  | 1 |  | 2 | M = 1Au + 2Bu |
| Mn,Ni | 2d |  | 1 |  | 2 | M = 1Au + 2Bu |
| Sr | 4i | 2 | 1 | 1 | 2 | M = 2Ag + Au + Bg + 2Bu |
| O1 | 4i | 2 | 1 | 1 | 2 | M = 2Ag + Au + Bg + 2Bu |
| O2 | 8j | 3 | 3 | 3 | 3 | M = 3Ag + 3Au + 3Bg + 3Bu |
| ƬTotal = 14A + 16B = 30 Ƭacustic = Au + 2Bu  ƬRaman = 7Ag + 5Bg ƬInfrared = 7Au + 11Bu | | | | | | |