**Table V** SLE data for the quaternary H2O-Mn(H2PO2)2-NaCl-MnCl2 system at 323.15 Ka.

|  |  |  |  |
| --- | --- | --- | --- |
| No | **100 *w*** | **100 *J*\*** | Solid phaseb |
| Mn2+ | Na+ | Cl- | H2PO2 | Mn2+ | 2Cl- | H2O |
| 1 | 20.73 | 1.23 | 28.63 | 0.00 | 93.98 | 99.90 | 680.67 | N+M |
| 2 | 18.28 | 2.37 | 26.60 | 1.19 | 86.58 | 97.60 | 746.93 | N+M |
| 3 | 16.08 | 2.59 | 23.94 | 1.47 | 83.85 | 96.73 | 891.89 | N+M |
| 4E | 14.28 | 2.95 | 21.91 | 1.95 | 80.19 | 95.33 | 1011.86 | N+M+H |
| 5 | 13.72 | 0.00 | 11.83 | 10.78 | 100 | 66.80 | 1419.43 | M+H |
| 6 | 13.29 | 1.45 | 16.26 | 5.73 | 88.46 | 83.85 | 1288.10 | M+H |
| 7 | 12.76 | 2.00 | 17.62 | 3.52 | 84.21 | 90.05 | 1293.63 | M+H |
| 8E | 14.28 | 2.95 | 21.91 | 1.95 | 80.19 | 95.33 | 1011.86 | N+M+H |
| 9 | 1.79 | 9.61 | 14.85 | 4.23 | 13.46 | 86.62 | 1601.20 | H+N |
| 10 | 4.32 | 7.36 | 14.94 | 3.67 | 32.91 | 88.22 | 1625.10 | H+N |
| 11 | 5.49 | 7.02 | 15.97 | 3.59 | 39.54 | 89.10 | 1496.39 | H+N |
| 12 | 7.57 | 4.76 | 15.73 | 2.53 | 57.07 | 91.87 | 1600.66 | H+N |
| 13E | 14.28 | 2.95 | 21.91 | 1.95 | 80.19 | 95.33 | 1011.86 | N+M+H |

\***Jänecke index (*J*) =** mole per 100 mole dry salt(2Na+ + Mn2+) aStandard uncertainties (*u)* are *u*(*ρ*) = 0.001 g cm-3, *u*(*T*) = 0.05 K, *ur*(*P*) = 5 % and
*u*(*w*) = 0.01 *w*, *w* is the mass fraction, bN - NaCl; M- MnCl2 4H2O; H - Mn(H2PO2)2 H2O.