**Sample 2**: The crystalline phases and their true weight percentages (*w*T) of the four-phase mixture are given.

|  |  |
| --- | --- |
| **Phase** | ***w*T (%)** |
| corundum (-Al2O3) | 21.27 |
| fluorite (CaF2) | 22.53 |
| zincite (ZnO) | 19.94 |
| brucite [Mg(OH)2] | 36.26 |