

Crystal chemistry of samarskite

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Table 3.

Table 3. Standards used for EMPA analysis.

| Standard                                 | Element(s)<br>Calibrated |
|--|--------------------------|
| Anorthite                                | Al, Ca                   |
| Microlite, Harding Mine                  | Na, Ta                   |
| Cerussite (PbCO <sub>3</sub> ), Tsumeb   | Pb                       |
| Cassiterite (SnO <sub>2</sub> ), Bolivia | Sn                       |
| UO <sub>2</sub> , synthetic              | U                        |
| NaNbO <sub>3</sub> , synthetic           | Nb                       |
| Tephroite                                | Mn                       |
| KTaO <sub>3</sub> , synthetic            | K                        |
| REE oxide glass, synthetic               | Gd, Eu, Tb, Tm           |
| REE oxide glass, synthetic               | Sm, Nd, Yb, Lu           |
| REE oxide glass, synthetic               | Ce, La, Pr               |
| REE oxide glass, synthetic               | Dy, Er, Ho               |
| CaWO <sub>4</sub> , synthetic            | W                        |
| Olivine                                  | Fe, Mg, Si               |
| Zircon                                   | Zr                       |
| ThSiO <sub>4</sub> , synthetic           | Th                       |
| Gadolinite, Rode Ranch                   | Y                        |
| CaTiO <sub>3</sub> , synthetic           | Ti                       |