



**Figure 3.** The variation of  $G_{\text{FeO}}$  in the composition space FeO - MgO - SiO<sub>2</sub> - Al<sub>2</sub>SiO<sub>5</sub> - KAlSi<sub>3</sub>O<sub>8</sub> - H<sub>2</sub>O with FeO and MgO as *j*-components and SiO<sub>2</sub>, Al<sub>2</sub>SiO<sub>5</sub>, KAlSi<sub>3</sub>O<sub>8</sub>, and H<sub>2</sub>O as *k*-components.