The chemical properties, i.e., moisture content, pH and gelatinized content of both small-sized and large-sized of cassava pearl were determined. The samples of cassava pearl were taken from some factories in Thailand. It was found that the chemical properties of large-sized cassava pearl from each factory were different from those of small-sized one. Furthermore, the study of viscosity by Rapid Visco Analyzer (RVA) showed that the gelatinized content affected the peak viscosity of cassava pearl.