

Penentuan unsur impuritas dalam serbuk U_3Si_2 dengan menggunakan alat ICPS

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=128948&lokasi=lokal>

Abstrak

Element impurity determination in U_3Si_2 powder by using ICPS equipment, the analysis of trace elements in U_3Si_2 powder (Al, B, Cd, Co, Cu, Fe, Ni, Li, Zn) has been done by using ICPS. The aim of this activity is to get the data support or comparator in verification between work is to verify the trace elements content quantitatively in U_3Si_2 powder and to verify its specification toward the required standard specified by IAEA. Sample preparation is carried out by dissolving of 1 g U_3Si_2 powder, in HNO_3 6M, then filtered and extracted with TBP / Hexane (7:3). Result of analysis, indicate that all metal element (Al, B, Cd, Co, Cu, Fe, Ni, Zn, Li) which is required in nuclear fuel element specification, can be detected quality....