actinoids, transuranium elements

1 6000 50 - 015 Chemical Characterization of Bohrium (Element 107). — ²⁶⁷Bh atoms are produced by irradiating for about four weeks a target of ²⁴⁹Bk covered with a layer of ¹⁵⁹Tb on a thin Be foil with ²²Ne particles. The Bh atoms are reacted with HCl and O₂ gas at 1000 °C to give presumably ²⁶⁷BhO₃Cl which is detected by isothermal gas adsorption chromatography. It is found that this compound is less volatile than the oxychlorides of Re or Tc. The standard sublimation enthalpy of BhO₃Cl is estimated as 89 kJ/mol. — (GAEGGELER, H. W.; ET AL.; Nature (London, UK) 407 (2000) 6800, 63-65; Inst. Chem. Biochem., Univ. Bern, CH-3012 Bern, Switz.; EN)

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