

substance: boron compounds with actinides

property: properties of boron-plutonium and americium compounds

PuB

Preparation [75S], crystalline structure [75S, 60M]

PuB₂

Preparation [75S, 81S], crystalline structure [75S, 60M, 81S]

Structure and magnetic properties of solid solutions of the diborides of Np and Pu [87C].

entropy

S 60.65(627) J mol⁻¹ K⁻¹ 86B

PuB₄

Preparation [75B, 75S, 60M], crystalline structure [77N, 75S, 60M]

Entropy in [86B].

PuB₆

Preparation [75B, 75S], crystalline structure [77E, 60M, 77N, 75S], electronic structure [77P]

Entropy in [86B].

PuB₁₂

Preparation [75B]

PuB₆₆

Semicond.?: preparation [75B], crystalline structure (YB₆₆-type) [81S]

AmB₄

Preparation [75B]

AmB₆

Preparation [69E], crystalline structure [69E, 77E]

References:

- 60M McDonald, B. J., Stuart, W. I.: Acta Crystallogr. 13 (1960) 447.
- 69E Eick, H. A., Mulford, R. N. R.: J. Inorg. Nucl. Chem. 31 (1969) 371.
- 75B Benesovsky, F., in: Ullmanns Enzyklopädie der techn. Chemie 8 (1975) 657.
- 75S Samsonov, G. V., Serebryakova, T. I., Neronov, V. A.: Boridy, Moskva Atomizdat, 1975.
- 77B Berezin, A. A., Golikova, O. A., Zaitsev, V. R., Kazanin, M. M., Orlov, V. M., Tkalenko, E. N., in: Boron and Refractory Borides, (Matkovich V. 1., ed.) Springer: Berlin, Heidelberg, New York 1977, p. 52.
- 77E Etourneau, J., Mercuno, J. P., Hagenmuler, P.: see [77B], p. 115.
- 77N Naslain, R.: see [77B], p. 139.
- 77P Perkins, P. G.: see [77B], p. 31.
- 81S Schwetz, K. A., Reinmuth, K., Lipp, A.: Radex-Rundschau, 1981, 568.
- 86B Borovikova, M.S., Fesenko, V.V.: J. Less-Common Met. 117 (1986) 287. (Proc. 8th Int. Symp. Boron, Borides, Carbides, Nitrides and Rel. Compounds, Tbilisi, Oct. 8 - 12, 1984)
- 87C Chipaux, R., Larroque, J., Beauvy, M., Bouisseau, D., Blaise, A.: in: Proc. 9th Int. Symp. Boron, Borides and Rel. Compounds, University of Duisburg, Germany, Sept. 21 - 25, 1987, H. Werheit ed., University of Duisburg: Duisburg, 1987, p. 393.