

substance: boron compounds with group II elements
property: properties of boron-cadmium compounds

CdB₄

Amorphous boron reacts with molten Cd at $T = 800^{\circ}\text{C}$ to a blackish-brown powder containing about 5 wt% Cd. The chemical properties are similar to ZnB₂₂, but X-ray powder patterns and IR absorption indicate amorphous structure [77G, 74K].

melting point

T_{m} ~2650 °C

96G

References:

- 74K Korsukova, M. M., Gurin, V. N., Sorokin, V. N., Yusov, Yu. P., Terent'eva, S. P., in: Bor, Poluchenie, Struktura i Svoistva, Ed.: Tavadze F. N., Moscow Nauka, 1974, p. 235.
- 74W Werheit, H., Binnenbruck, H.: see [74K], p. 110.
- 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.
- 77G Gurin, V. N., Korsukova, M. M.: see [77B], p. 293.
- 96G Gurin, V.N., Derkachenko, L.I., Korsukova, M.M., Nikanorov, S.P., Jung, W., Müller, R.: Sov. Phys. Solid State 38 (1996) 1508.