

substance: boron compounds with lanthanides
property: properties of lanthanide hexaborides: PrB₆

Entropy in [86B].

microhardness

H_K	2160 kg mm ⁻²	$T = 300$ K	cube, average value; load 50 g	96G
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High temperature hardness of single crystals of LaB₆, CeB₆, PrB₆, NdB₆ and SmB₆ [99O].

melting point

T_m	2610 °C			96G
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Thermal expansion coefficient: $\alpha [10^{-6}\text{K}^{-1}] = 4.1301 (1 + 6.93 \cdot 10^{-6} T + 1.01 \cdot 10^{-9} T^2)$, T in K [73D].

Oxygen adsorption sites on the PrB₆ (100) (compared with LaB₆ (100)) surfaces [96Y].

standard enthalpy of formation

ΔH_f^0	-51.3(57) kJ/g atom	synthesis calorimetry from the elements	95M, 93M
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References:

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