The title compound was prepared from the elements by arc-melting followed by annealing in silica tubes at 1270 K for one week. The crystal structure was investigated by means of single-crystal X-ray diffraction: space group Cmmm, \( a = 3.412(1) \) Å, \( b = 13.699(8) \) Å, \( c = 3.669(1) \) Å, \( V = 171.5(1) \) Å\(^3\), \( Z = 2 \), \( R_1 = 0.032 \); \( wR_2 = 0.087 \) for 123 unique reflections with \( I_o \geq 2\sigma(I_o) \) and 11 refined parameters.

Key words: Terbium Boride Carbide, Crystal Structure