= 1411 pm , b =
1755 pm and c = 963 pm and the calculated density of 2 @.@ 47 g / cm3 . The complex is stable to heating to at least 250 ° C , and sublimates without melting at about 350 ° C. The high radioactivity of berkelium gradually destroys the compound within a period of weeks . One C_5H_5 ring in (η^5 ? C_5H_5) $_3$Bk can be substituted by chlorine to yield [Bk (C_5H_5) $_2$Cl] $_2$. The optical absorption spectra of this compound are very similar to those of (η^5 ? C_5H_5) $_3$Bk .