Hypercinnabar


Physical Properties:  Fracture: Subconchoidal to uneven.  Hardness = 3  VHN = 51.5(8.0) (25 g load).  D(meas.) = 7.43  D(calc.) = 7.54


Cell Data:  Space Group:  n.d.  a = 7.01(3)  c = 14.13(7)  Z = 12

X-ray Powder Pattern:  Synthetic. (ICDD 19-798).  3.08 (100), 1.980 (100), 1.892 (100), 2.80 (90), 3.43 (80), 3.70 (70), 2.97 (60)

Chemistry:  Composition established by similarity of X-ray pattern with synthetic material.

Polymorphism & Series:  Trimorphous with cinnabar and metacinnabar.

Occurrence:  Intimately associated with metacinnabar, which it generally resembles.

Association:  Metacinnabar.

Distribution:  In the USA, from the Mt. Diablo mine, Contra Costa Co., California [TL]; at the White Caps mine, Manhattan district, Nye Co., Nevada.

Name:  In allusion to the fact that the stability field of the species extends to higher temperatures than that of cinnabar or metacinnabar.

Type Material:  n.d.