

**Crystal Data:** Orthorhombic. *Point Group:*  $2/m\ 2/m\ 2/m$ .

**Physical Properties:** *Cleavage:* *Tenacity:* *Fracture:*  
Hardness =     $D(\text{meas.}) =$      $D(\text{calc.}) =$

**Optical Properties:** Translucent. *Color:* Yellow. *Streak:* *Luster:*  
*Optical Class:*

**Cell Data:** *Space Group:* *Pbcn*.     $a = 8.498(5)$      $b = 10.363(6)$      $c = 16.250(9)$

**X-Ray Diffraction Pattern:** Sulfur Springs Draw, Martin Co., Texas, USA.  
4.06 (100), 8.13 (75), 2.98 (68), 4.25 (64), 2.03 (55), 2.11 (48), 2.94 (47)

**Chemistry:**

**Polymorphism & Series:**

**Mineral Group:**

**Occurrence:**

**Association:** Pandoraite-Ca (Pandora mine).

**Distribution:** From the eastern edge of Sulfur Springs Draw, 21 miles south southeast of Lamesa, Martin Co., Texas and the Pandora Mine, La Sal Mining District, San Juan Co., Colorado, USA.

**Name:**

**Type Material:** Natural History Museum of Los Angeles County, Los Angeles, California, USA (66476 and 66477).

**References:** (1) Hålenius, U., F. Hatert, M. Pasero, and S.J. Mills (2017) IMA Commission on New Minerals, Nomenclature and Classification Newsletter 46. New minerals and nomenclature modifications approved in 2017. *Mineral. Mag.*, 81(5), 1282. (2) Kampf, A.R., J.M. Hughes, B.P. Nash, and J. Marty (2019) Pandoraite-Ba and pandoraite-Ca,  $\text{Ba}(\text{V}^{4+}_5\text{V}^{5+}_2)\text{O}_{16} \cdot 3\text{H}_2\text{O}$  and  $\text{Ca}(\text{V}^{4+}_5\text{V}^{5+}_2)\text{O}_{16} \cdot 3\text{H}_2\text{O}$ , two new vanadium oxide bronze minerals in solid solution from the Pandora mine, La Sal Mining District, San Juan County, Colorado, USA. *Can. Mineral.*, 57(2), 255-265.