

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

Physical Properties: *Cleavage:* *Tenacity:* *Fracture:*
Hardness = D(meas.) = D(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.