

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As pseudomorphs after montroseite crystals.

Physical Properties: Hardness = Soft. D(meas.) = n.d. D(calc.) = 4.09 Rapidly transforms topotactically from montroseite in air.

Optical Properties: Opaque. *Color:* Black to grayish black. *Streak:* Black.

Luster: Submetallic.

Optical Class: Biaxial.

R₁-R₂: n.d.

Cell Data: *Space Group:* Pbnm. a = 4.905 b = 9.422 c = 2.916 Z = 4

X-ray Powder Pattern: Bitter Creek mine, Colorado, USA. (ICDD 25-1003). 3.39 (100), 2.645 (50), 4.35 (35), 2.213 (35), 1.426 (35), 2.479 (25), 2.179 (25)

Chemistry:	(1)	(2)
V ₂ O ₄	72.5	66.90
SiO ₂		6.12
Al ₂ O ₃		3.00
V ₂ O ₃	10.5	11.10
FeO	8.8	8.26
H ₂ O	5.0	4.82
Total	[96.8]	100.20

(1) Bitter Creek mine, Colorado, USA; partial analysis. (2) Matchless mine, Colorado, USA.

Occurrence: In relatively unoxidized Colorado Plateau-type U-V ores in sandstones, formed by dehydrogenation of montroseite (Colorado, Utah, and Arizona, USA).

Association: Montroseite, corvusite.

Distribution: All localities for montroseite are considered for paramontroseite: in the USA, in the Uravan district, from the Bitter Creek, Jo Dandy, and other mines, Montrose Co., the West Sunday mine, Big Gypsum Valley, San Miguel Co., and the Matchless mine, Gateway district, Mesa Co., Colorado; in the Juniper mine, near Thompson, Grand Co., the Rex No. 2 mine, Temple Mountain, and Mi Vida mine, Monticello district, Emery Co., Utah. In the Martin, Mesa 4-1/2, and Cove mines, Carrizo Mountains, and the Monument No. 2 mine, Monument Valley, Apache Co., Arizona; in the Grants district, McKinley Co., New Mexico; and in the Runge mine, Edgemont, Fall River Co., South Dakota. At Příbram, and in the Novoveska Huta deposit, Czech Republic. In the Urcal deposit, La Rioja, and in the Huemul mine, Malargüe district, Mendoza Province, Argentina. From the Mounana uranium mine, Franceville, Gabon.

Name: From the Greek for *near*, for its paramorphic relation to *montroseite*.

Type Material: National Museum of Natural History, Washington, D.C., USA, 106897, 106898.

References: (1) Evans, H.T., Jr. and M.E. Mrose (1955) A crystal chemical study of montroseite and paramontroseite. *Amer. Mineral.*, 40, 861-875. (2) Weeks, A.D., E.A. Cisney, and A.N. Sherwood (1953) Montroseite, a new vanadium oxide from the Colorado Plateaus. *Amer. Mineral.*, 38, 1235-1241.