

Crystal Data: Monoclinic. *Point Group:* $2/m$, m , or 2 . Granular, porous to dense, to 1 mm. *Twinning:* Frequently observed under the microscope.

Physical Properties: *Fracture:* Irregular to conchoidal. *Tenacity:* Very brittle. Hardness = 2–2.5 VHN = 173–201, 188 average (20 g load). D(meas.) = 9.80 (dense granular). D(calc.) = 9.88

Optical Properties: Translucent. *Color:* Deep raspberry-red to cherry-red, turns black on exposure; deep red or brownish red in transmitted light; white in reflected light. *Streak:* Red. *Luster:* Vitreous to adamantine.

Optical Class: Biaxial. *Pleochroism:* Slight. $n = > 2.0$ $2V(\text{meas.}) = \text{n.d.}$

Anisotropism: Strong; azure to blue.

R_1 – R_2 : (440) 25.0–31.0, (460) 24.5–31.0, (480) 22.5–31.0, (500) 22.5–30.0, (520) 22.2–29.2, (540) 22.0–28.4, (560) 21.6–27.2, (580) 20.9–25.5, (600) 20.0–23.5, (620) 18.5–22.1, (640) 17.0–20.7

Cell Data: *Space Group:* $C2/m$, $C2/c$, Cm , Cc , or $C2$. $a = 18.82$ $b = 9.02$ $c = 16.79$
 $\beta = 112^\circ 24'$ $Z = 24$

X-ray Powder Pattern: Khaydarkan, Kyrgyzstan.

2.83 (10), 2.74 (8), 1.799 (6.5), 2.60 (6), 3.09 (5), 2.96 (4), 1.883 (4)

Chemistry:

	(1)	(2)
Hg	91.30	92.12
O	2.36	2.45
Cl	5.30	5.43
Total	98.96	100.00

(1) Khaydarkan, Kyrgyzstan; by electron microprobe, average of ten analyses; corresponds to Hg_{3.03}Cl_{1.00}O_{0.99}. (2) Hg₃ClO.

Occurrence: In an oxidized mercury deposit.

Association: Eglestonite, calomel, terlinguaite, montroydite, kuznetsovite, shakhovite, chursinite, corderoite, mercury, cinnabar, livingstonite.

Distribution: In the Khaydarkan mercury deposit, Fergana Valley, Alai Range, south Kyrgyzstan.

Name: Honors Vladimir Erastovich Poyarkov (1907–1975), Institute of Mineral Resources, Alma-Ata, Kyrgyzstan, investigator of mercury deposits, one of the first discoverers of the Khaydarkan deposit.

Type Material: Central Siberian Geological Museum, Siberian Division, Academy of Sciences, Novosibirsk, Russia.

References: (1) Vasil'ev, V.I., Y.G. Lavrent'ev, and N.A. Pal'chik (1981) Poyarkovite – Hg₃ClO – a new natural mercury oxyhalide. Zap. Vses. Mineral. Obshch., 110, 501–506 (in Russian). (2) (1982) Amer. Mineral., 67, 860 (abs. ref. 1). (3) (1982) Mineral. Abs., 33, 170 (abs. ref. 1).