

Crystal Data: Monoclinic. *Point Group:* $2/m$. Crystals are acicular, thin tabular parallel to [001], showing {001}, {100}, $\{\bar{2}01\}$, many other forms, to 1 cm; typically in bladed groups and fibrous radiating aggregates.

Physical Properties: *Cleavage:* On {001}, {100}, $\{\bar{2}01\}$, perfect. *Fracture:* Splintery. *Tenacity:* Flexible, nearly plastic. Hardness = ~ 1 D(meas.) = 1.35–1.40 D(calc.) = 1.29–1.42 Flammable; fluoresces sky-blue under LW and SW UV.

Optical Properties: Subtranslucent. *Color:* Yellow, yellowish brown on exposure.

Luster: Vitreous.

Optical Class: Biaxial (–) or (+). *Orientation:* $X = b$; $Z \wedge c = 21^\circ$. *Dispersion:* $r \gg v$, extreme. $\alpha = 1.780(2)$ $\beta = 1.977\text{--}1.982$ $\gamma = 2.05\text{--}2.15$ $2V(\text{meas.}) = 96^\circ\text{--}115^\circ$

Cell Data: *Space Group:* $P2_1/c$ or $P2/c$ (synthetic). $a = 10.035$ $b = 4.695$ $c = 16.014$ $\beta = 112^\circ$ $Z = 2$

X-ray Powder Pattern: Olenevo, Ukraine.

9.40 (10), 3.52 (9), 7.52 (8), 3.97 (7), 3.05 (6), 7.25 (5), 3.43 (4)

Chemistry:

	(1)	(2)
C	96.04	95.97
H	4.04	4.03
O		
Total	100.08	100.00

(1) Olenevo, Ukraine. (2) C₂₄H₁₂ (coronene).

Occurrence: In cavities at the contact of diorite porphyry with argillites (Olenevo, Ukraine); a low-temperature hydrothermal mineral (California, USA).

Association: Idrialite, amorphous organic material, calcite, barite, quartz, cinnabar, metacinnabar (Olenevo, Ukraine); cinnabar, quartz (California, USA).

Distribution: From near Olenevo, Transcarpathian region, western Ukraine. At Tamvotney, Kamchatka Peninsula, Russia. From the Picacho mercury mine, south of New Idria, San Benito Co., California, USA.

Name: From the Russian *Karpaty*, for the place of discovery in the Transcarpathian district, Ukraine.

Type Material: n.d.

References: (1) Piotrovsky, G.L. (1955) Karpatite – a new organic mineral from Transcarpathia. Lvovskoe geol. Obshch., Mineral. Sbornik, 9, 120–127 (in Russian). (2) (1957) Amer. Mineral., 42, 120 (abs. ref. 1). (3) Frank-Kamenetskii, V.A., S.K. Filatov, and Y.A. Giller (1967) The crystal structure and chemical formula of carpathite. Mineral. Sbornik L'vov Gos. Univ., 21, 275–278 (in Russian). (4) (1969) Amer. Mineral., 54, 329 (abs. ref. 3). (5) Murdoch, J. (1967) Pendletonite [= karpatite], a new hydrocarbon mineral from California. Amer. Mineral., 52, 611–616. (6) Pekov, I.V. (1998) Minerals first discovered on the territory of the former Soviet Union. Ocean Pictures, Moscow, 110.