Kratochvílite

Crystal Data: Orthorhombic. Point Group: 2/m 2/m 2/m. [Crystalline massive.]

Physical Properties: Hardness = n.d. D(meas.) = 1.206 D(calc.) = 1.197 Fluoresces bright blue-violet under SW UV.

Optical Properties: Semitransparent. Color: [Colorless.]
Optical Class: Biaxial. α = 1.557 β = 1.725 γ = n.d. 2V(meas.) = n.d.

Cell Data: Space Group: Pnam. a = 8.50 b = 5.71 c = 19.00 Z = 4

X-ray Powder Pattern: Synthetic C\textsubscript{13}H\textsubscript{10}. (ICDD 28-2011).
4.68 (100b), 3.38 (90), 9.39 (70), 4.21 (70b), 2.54 (60), 3.79 (50), 2.45 (50)

Chemistry: (1) Identification depends on the identity of X-ray powder pattern and physical properties with synthetic material (fluorene).

Occurrence: Formed as a result of burning pyritic shale (Kladno, Czech Republic).

Association: n.d.

Distribution: In the Czech Republic, in the Kladno district, at the Nejedlý I coal mine, Libušín. Material from other localities may be the natural analog of fluorene; but the original material perhaps was not.

Name: To honor Professor Josef Kratochvíl (1878–1958), Czech petrographer, Charles University, Prague, Czech Republic.

Type Material: Lost.