Kladnoite  

\[ \text{C}_6\text{H}_4(\text{CO})_2\text{NH} \]

Crystal Data: Monoclinic.  

Point Group: 2/m.  

Forms elongated crystals, with prominent \{100\}, \{110\}, \{230\}, \{120\}.

Physical Properties:  

Hardness = n.d.  

D(meas.) = 1.47  

D(calc.) = 1.469  

M.P. 234(1) °C.

Optical Properties:  

Semitransparent.  

Color: Colorless, white, pale yellow.  

Optical Class: Biaxial (+).  

Orientation: \( Y \wedge c \simeq 16^\circ \).  

\( \alpha = 1.501 \quad \beta = 1.519 \quad \gamma = 1.755 \)

2V(meas.) = n.d.

Cell Data:  

Space Group: \( P2_1/n \) (synthetic).  

\( a = 22.83(1) \quad b = 7.651(4) \quad c = 3.810(2) \)

\( \beta = 91.36(2)^\circ \quad Z = 4 \)

X-ray Powder Pattern:  

Synthetic. (ICDD 28-2013).

5.70 (100), 6.35 (95), 3.28 (30), 11.4 (18), 3.74 (14), 3.38 (14), 3.13 (14)

Chemistry:  

(1) Stated to be identical to phthalimide.

Occurrence:  

Formed as a result of fires in coal heaps.

Association:  

t.d.

Distribution:  

From the Scholler coal mine, Libušín, Kladno coal basin, about 30 km west-northwest of Prague, and at Radvanice, Czech Republic.

Name:  

For its occurrence in the Kladno district, Czech Republic.

Type Material:  

t.d.

References:  

(1) Rost, R. (1942) Supplements to the mineralogy of the burning (coal) heaps in the region of Kladno. Rozpravy České Akad., 52(25), 4 pp.  

(2) (1946) Amer. Mineral., 31, 605 (abs. ref. 1).  