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. \( D(\text{meas.}) = 1.47 \) \( D(\text{calc.}) = 1.469 \) \( \text{M.P.} \ 234(1) \ ^\circ \text{C} \).

**Optical Properties:** Semitransparent. *Color:* Colorless, white, pale yellow.

*Optical Class:* Biaxial (+). *Orientation:* \( Y \wedge c \simeq 16^\circ \). \( \alpha = 1.501 \) \( \beta = 1.519 \) \( \gamma = 1.755 \) \( 2V(\text{meas.}) = \text{n.d.} \).

**Cell Data:** *Space Group:* \( \text{P2}_1/\text{n} \) (synthetic). \( a = 22.83(1) \) \( b = 7.651(4) \) \( c = 3.810(2) \) \( \beta = 91.36(2)^\circ \) \( Z = 4 \).

**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:** n.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:** n.d.