**Hoelite**

**Crystal Data:** Monoclinic, pseudo-orthorhombic. *Point Group:* 2/m. As delicate needles, to several mm long.

**Physical Properties:** Hardness = n.d. D(meas.) = 1.43  D(calc.) = 1.467

**Optical Properties:** Semitransparent. *Color:* Yellow, yellowish green.  
*Optical Class:* [Biaxial (+).]  
*Orientation:* X || elongation.  
\[ \alpha = \sim 1.75 \quad \beta = \sim 1.75 \quad \gamma = \sim 2.0 \]  
2V(meas.) = n.d.

**Cell Data:** *Space Group:* P2₁/a.  
\[ a = 15.81 \quad b = 3.967 \quad c = 7.876 \quad \beta = 102.67^\circ \quad Z = 2 \]

**X-ray Powder Pattern:** Synthetic. (ICDD 28-2002).  
3.52 (100), 7.69 (95), 3.36 (80), 6.16 (50), 3.84 (35), 3.14 (14), 3.79 (10)

**Chemistry:** (1) Modern identification would depend on coincidence of X-ray powder diffraction pattern with that of synthetic material (anthraquinone).

**Occurrence:** Very rare, in crusts around the surface vents of a burning coal deposit.

**Association:** Sal ammoniac, sulfur.

**Distribution:** On Mt. Pyramide, Spitsbergen, Norway.

**Name:** Honors Adolf Hoel (1879–1964), leader of the discovery expedition to Spitsbergen during which the mineral was found.

**Type Material:** Mineralogical-Geological Museum, University of Oslo, Oslo, Norway, 21981.

(2) (1923) Mineral. Abs., 2, 10 (abs. ref. 1).