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Crystal Data: Monoclinic. *Point Group:* 2/m or 2. As crusts of acicular crystals, to 0.1 mm.

Physical Properties: Cleavage: On $\{010\}$, very good. Fracture: Conchoidal. Tenacity: Brittle. Hardness = n.d. D(meas.) = n.d. D(calc.) = 4.79 Radioactive; fluoresces yellow under SW and LW UV.

Optical Properties: Translucent. Color: Yellow. Streak: Pale yellow. Luster: Vitreous. Optical Class: Biaxial (–). Pleochroism: Y = pale yellow; Z = yellow. $\alpha = 1.715(2)$ $\beta = 1.718(2)$ $\gamma = 1.720(2)$ 2V(meas.) = n.d. $2V(\text{calc.}) = 78^{\circ}$

Cell Data: Space Group: $P2_1/m$ or $P2_1$. a = 18.553(8) b = 9.276(2) c = 13.532(7) $\beta = 125.56(2)^{\circ}$ Z = 2

X-ray Powder Pattern: Jáchymov, Czech Republic. 7.56 (100), 7.13 (48), 3.771 (34), 3.554 (20), 3.206 (13), 3.234 (10), 2.052 (8)

Chemistry:

	(1)	(2)
SO_3	2.79	2.93
UO_3	84.20	83.86
$\rm H_2O$	13.32	13.21
Total	100.31	100.00

(1) Jáchymov, Czech Republic; H_2O by TGA, corresponds to $(UO_2)_{8.01}(SO_4)_{0.95}$ $(OH)_{14.12} \cdot 13.06H_2O$. (2) $(UO_2)_8(SO_4)(OH)_{14} \cdot 13H_2O$.

Occurrence: Found on a museum specimen from the heavily oxidized portions of a uraninite-bearing vein in dolomite.

Association: Gypsum, uranopilite, uraninite.

Distribution: From Jáchymov (Joachimsthal), Czech Republic.

Name: For the uranium deposit at Jáchymov, Czech Republic, where the specimen was collected.

Type Material: Natural History Museum, Prague, Czech Republic, P1N-68905.

References: (1) Čejka, J., J. Sejkora, Z. Mrázek, Z. Urbanec, and T. Jarchovský (1996) Jáchymovite, $(UO_2)_8(SO_4)(OH)_{14} \cdot 13H_2O$, a new uranyl mineral from Jáchymov, the Krušné hory Mts., Czech Republic, and its comparison with uranopilite. Neues Jahrb. Mineral., Abh., 170, 155–170. (2) (1997) Amer. Mineral., 82, 207–208 (abs. ref. 1).