

**Crystal Data:** Monoclinic. *Point Group:* 2/m. As tablets, flattened on {001}, and blades elongated parallel to [100], to ~0.4 mm. *Twinning:* By reflection on {001}, ubiquitous.

**Physical Properties:** *Cleavage:* {001}, distinct; also, perhaps on {010} and {110}. *Tenacity:* Brittle. *Fracture:* Irregular. Hardness = < 1 D(meas.) = 1.15(1) D(calc.) = 1.113 Soluble in index of refraction liquids.

**Optical Properties:** Transparent. *Color:* Pale amber. *Streak:* n.d. *Luster:* Greasy. *Optical Class:* Biaxial (+).  $\alpha \approx 1.58$  (est.)  $\beta \approx 1.66$  (calc.)  $\gamma \approx 1.79$  (calc.)  $2V(\text{meas.}) = 82(2)^\circ$   $2V(\text{calc.}) = \text{n.d.}$  *Orientation:*  $X = b, Z \wedge c \approx 20^\circ$ . *Pleochroism:*  $X = Y = \text{pale amber}, Z = \text{amber}$ . *Absorption:*  $X = Y < Z$ .

**Cell Data:** *Space Group:*  $P2_1/a$ .  $a = 6.7331(19)$   $b = 8.689(3)$   $c = 23.709(7)$   $\beta = 90.118(6)^\circ$   
Z = 4

**X-ray Powder Pattern:** Wampen, Fichtelgebirge, Bavaria, Germany.  
4.88 (100), 11.92 (49), 5.32 (43), 3.504 (33), 4.366 (28), 3.656 (23), 2.164 (9)

<b>Chemistry:</b>	(1)	(2)
C	92.5	93.04
H	7.6	6.96
Total	100.1	100.00

(1) Wampen, Fichtelgebirge, Bavaria, Germany; average CHN analysis supplemented by high-resolution mass and FTIR spectroscopy. (2) C<sub>18</sub>H<sub>16</sub>.

**Occurrence:** On a specimen of fossilized conifer wood.

**Association:** Fichtelite (perhaps).

**Distribution:** From the fossil conifer locality at Wampen, Fichtelgebirge, Bavaria, Germany.

**Name:** For the locality that produced the first specimens, *Wampen*, Germany.

**Type Material:** Mineral Sciences Department, Natural History Museum of Los Angeles County, Los Angeles, California, USA (63558).

**References:** (1) Mills, S.J., A.R. Kampf, F. Nestola, P.A. Williams, P. Leverett, L. Hejazi, D.E. Hibbs, M. Mrorsko, M. Alvaro, and A.V. Kasatkin (2017) Wampenite, C<sub>18</sub>H<sub>16</sub>, a new organic mineral from the fossil conifer locality at Wampen, Bavaria, Germany. *Eur. J. Mineral.*, 29(3), 511-515. (2) (2018) *Amer. Mineral.*, 103, 662 (abs. ref. 1).