Matraite ZnS

Crystal Data: Hexagonal. *Point Group:* $3m$. In pyramidal crystal aggregates consisting of oriented sceptre-shaped overgrowths of matraite and sphalerite.

Physical Properties: Hardness = n.d. VHN = n.d. D(meas.) = n.d. D(calc.) = 4.13

Optical Properties: Transparent. *Color:* Brownish yellow. *Luster:* Vitreous.
Anisotropism: Pronounced in some crystals.
R_1–R_2: n.d.

Cell Data: *Space Group:* $R3m$. $a = 3.8$ $c = 9.4$ $Z = 3$

X-ray Powder Pattern: n.d.

Chemistry:

	(1)	(2)
Zn	61.70	67.10
Fe	5.10	
S	33.22	32.90
Total	100.02	100.00

(1) Matra Mountains, Hungary. (2) ZnS.

Polymorphism & Series: Trimorphous with sphalerite and wurtzite.

Occurrence: Of hydrothermal origin.

Association: Wurtzite, sphalerite, galena, chalcopyrite, pyrite.

Distribution: From an undefined locality in the Matra Mountains, Hungary. At Telluride, San Miguel Co., Colorado, USA.

Name: For the Matra Mountains locality in Hungary.

Type Material: n.d.

References: (1) Koch, S. (1958) The associated occurrence of three ZnS modifications in Gyöngyösoroszi. Acta mineralog. petrog. Univ. Szegediensis, 11, 11–12. (2) Sasvari, K. (1958) ZnS mineral with ZnS−3R crystal structure. Acta mineralog. petrog. Univ. Szegediensis, 11, 23–27. (3) (1960) Amer. Mineral., 45, 1131 (abs. refs. 1 and 2). (4) Buck, D.C. and L.W. Strock (1955) Trimorphism in zinc sulfide. Amer. Mineral., 40, 192–200.