

Crystal Data: Monoclinic. *Point Group:* $2/m$. As irregular crystals, to 0.2 mm across.

Physical Properties: Hardness = n.d. VHN = n.d. D(meas.) = n.d. D(calc.) = 5.036

Optical Properties: Opaque. *Color:* Red.

R₁–R₂: n.d.

Cell Data: *Space Group:* $P2_1/n$. $a = 5.948(2)$ $b = 11.404(6)$ $c = 15.979(5)$
 $\beta = 90.15(1)^\circ$ $Z = 4$

X-ray Powder Pattern: n.d.

Chemistry:	(1)	(2)
Tl	24.00	24.86
Hg	23.80	24.40
As	25.55	27.34
Sb	1.68	0.00
S	24.97	23.40
Total	100.00	100.00

(1) Alšar, Macedonia; by electron microprobe, corresponds to Tl_{0.90}Hg_{0.91}
 (As_{2.63}Sb_{0.11})_{Σ=2.74}S_{6.00}. (2) TlHgAs₃S₆.

Occurrence: As inclusions in rebulite.

Association: Rebulite, christite or routhierite, parapirotite.

Distribution: From Alšar (Allchar), near Rošden, Macedonia [TL].

Name: Apparently to honor Simon Engel, son of Peter Engel, Swiss crystallographer, the principal describer.

Type Material: Natural History Museum, Bern, Switzerland, B2920.

References: (1) Engel, P., W. Nowacki, T. Balić-Žunić, and S. Šćavnićar (1982) The crystal structure of simonite, TlHgAs₃S₆. *Zeits. Krist.*, 161, 159–166. (2) (1984) *Amer. Mineral.*, 69, 211 (abs. ref. 1).