

Crystal Data: Monoclinic. *Point Group:* 2/*m*. As prismatic crystals, elongated along [001], up to 5 mm; showing {110}, {130}, {010}, {211}, {121}, {011}, striated on {110} and {130}.

Physical Properties: *Tenacity:* Brittle. Hardness = 7 D(meas.) = 5.0(1) D(calc.) = 4.85 Blue cathodoluminescence.

Optical Properties: Transparent to translucent. *Color:* Light brown. *Streak:* White.

Luster: Adamantine.

Optical Class: Biaxial (-). *Dispersion:* $r > v$, strong. $\alpha = > 2.10$ $\beta = > 2.10$ $\gamma = > 2.10$ 2V(meas.) = n.d.

Cell Data: *Space Group:* $P2_1/c$. $a = 12.299(2)$ $b = 11.120(2)$ $c = 4.854(1)$ $\beta = 95.62(1)^\circ$ $Z = 4$

X-ray Powder Pattern: Trimouns, France.

2.820 (100), 3.44 (90), 1.959 (60), 1.643 (60), 2.117 (50), 1.628 (50), 2.777 (40)

Chemistry:

	(1)
SiO ₂	11.77
TiO ₂	34.47
Y ₂ O ₃	34.62
Sm ₂ O ₃	0.40
Gd ₂ O ₃	1.92
Tb ₂ O ₃	0.71
Dy ₂ O ₃	5.67
Ho ₂ O ₃	0.79
Er ₂ O ₃	5.04
Yb ₂ O ₃	4.83
Total	100.22

(1) Trimouns, France; by electron microprobe, mean of several analyses; corresponds to (Y_{1.48}Dy_{0.15}Er_{0.13}Yb_{0.12}Gd_{0.05}Ho_{0.02}Tb_{0.02}Sm_{0.01})_{Σ=1.98}Ti_{2.08}Si_{0.94}O₉.

Occurrence: In dolomitic portions of a talc deposit.

Association: Allanite, bastnäsite, monazite, parisite, synchysite, calcite, dolomite.

Distribution: From the Trimouns talc deposit, six km northeast of Luzenac, Ariège, France.

Name: For the locality, the Trimouns talc deposit, France, and its *yttrium* content.

Type Material: Royal Institute of Natural Sciences of Belgium, Brussels, Belgium, RC3967.

References: (1) Piret, P., M. Deliens, and M. Pinet (1990) La trimouns-site-(Y), nouveau silicotitanate de terres rares de Trimouns, Ariège, France: (TR)₂Ti₂SiO₉. Eur. J. Mineral., 2, 725–729 (in French with English abs.). (2) (1991) Amer. Mineral., 76, 2024 (abs. ref. 1).