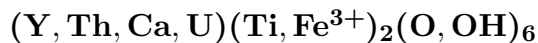


**Yttrocrasite-(Y)**

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**Crystal Data:** Orthorhombic (probable); metamict. *Point Group:* n.d. Crystals rough, showing three pinacoids, a prism, and an orthodome.

**Physical Properties:** *Fracture:* Uneven, small conchoidal. *Hardness* = 5.5–6  
D(meas.) = 4.80 D(calc.) = n.d. Radioactive.

**Optical Properties:** Opaque, transparent in thin fragments. *Color:* Black, brown where altered; in transmitted light, amber-yellow to light yellow. *Luster:* Bright pitchy to resinous.  
*Optical Class:* Isotropic; weakly anisotropic in part.  $n = 2.12\text{--}2.15$

**Cell Data:** *Space Group:* n.d.  $Z =$  n.d.

**X-ray Powder Pattern:** n.d.

<b>Chemistry:</b>	(1)		(1)
	UO <sub>3</sub>	0.64	(Ce, La) <sub>2</sub> O <sub>3</sub>
	WO <sub>3</sub>	1.87	Fe <sub>2</sub> O <sub>3</sub>
	Nb <sub>2</sub> O <sub>5</sub>	trace	MnO
	Ta <sub>2</sub> O <sub>5</sub>	trace	PbO
	SiO <sub>2</sub>	trace	MgO
	TiO <sub>2</sub>	49.72	CaO
	ThO <sub>2</sub>	8.75	H <sub>2</sub> O <sup>+</sup>
	UO <sub>2</sub>	1.98	H <sub>2</sub> O <sup>-</sup>
	(Y, Er) <sub>2</sub> O <sub>3</sub>	25.67	CO <sub>2</sub>
			<hr/>
			Total
			100.57

(1) Burnet Co., Texas, USA.

**Occurrence:** In granite pegmatite.

**Association:** n.d.

**Distribution:** In the USA, from Burnet Co., Texas, about five km east of Baringer Hill.

**Name:** From a dominance of YTTRium in the composition, and the Greek for *a mixing*, as there are many other elements in addition to yttrium.

**Type Material:** National Museum of Natural History, Washington, D.C., USA, 119841.

**References:** (1) Palache, C., H. Berman, and C. Frondel (1944) Dana's system of mineralogy, (7th edition), v. I, 793.