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 = 2.12-2.15

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

X-ray Powder Pattern: n.d.

Chemistry:		(1)		(1)
	$UO_3$	0.64	$(Ce, La)_2O_3$	2.92
	WO <sub>3</sub>	1.87	$Fe_2O_3$	1.44
	$Nb_2O_5$	trace	MnO	0.13
	$Ta_2O_5$	trace	PbO	0.48
	$SiO_2$	trace	MgO	trace
	$\mathrm{TiO}_{2}$	49.72	CaO	1.83
	$\overline{\mathrm{ThO}_{2}}$	8.75	$H_2O^+$	4.36
	$UO_2$	1.98	$H_2O^-$	0.10
	$(Y, Er)_2O_3$	25.67	$\bar{CO}_2$	0.68
			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.