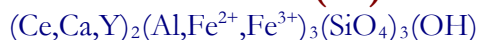


## **ALLANITE-(Ce)**



The rare earth-dominant member of the epidote group. It occurs in pegmatites and as a microscopic accessory in granitoids. It often becomes altered through metamictization. Northern Peninsula.

**Gogebic County:** 1. Marenisco: Accessory mineral in Presque Isle Granite (Trent, 1969). 2. In an Archean tonalitic augen gneiss from the Watersmeet dome, as a microscopic accessory partly rimmed by epidote-clinozoisite. Also in unconformably overlying biotite gneiss, locally with fluorite (q.v.) (Sims et al., 1984).

**Iron County:** Peavy Pond complex: Occurs as a microscopic accessory mineral in various rocks, namely hornblende metadiorite, hornblende metatonalite, granodiorite dikes, and granite dikes. In the granite dikes it is mantled by epidote (Bayley, 1959).

**Marquette County:** In a pegmatite quarry near Republic, section 22, T47N, R29W: Altered and isotropic with  $n = 1.703$ , and  $G = 3.2-3.4$ . The cerium content is 3-4% (Snelgrove et al., 1944).

**FROM: Robinson, G.W., 2004 Mineralogy of Michigan by E.W. Heinrich updated and revised: published by A.E. Seaman Mineral Museum, Houghton, MI, 252p**