**Crystal Data:** Hexagonal. **Point Group:** 6m2. Crystals form hexagonal prisms, which may be hollow, vertically striated, to 3 mm; in hemispherical forms with radiating structure. Typically in complex overgrowths on erionite and levyne.


**Optical Properties:** Transparent to translucent. Color: Colorless to white. Luster: Vitreous. **Optical Class:** Uniaxial (-). \( \omega = 1.489\text{–}1.495 \quad \epsilon = 1.486\text{–}1.492 \)

**Cell Data:** **Space Group:** P6m2. \( a = 13.291(2) \quad c = 7.582(6) \quad Z = 1 \)

**X-ray Powder Pattern:** Mont Sémio, France; close to erionite. 11.50 (100), 2.880 (64), 4.352 (59), 3.837 (43), 5.76 (35), 3.322 (22), 6.64 (20)

**Chemistry:**

\[
\begin{align*}
\text{SiO}_2 & \quad 53.0 \\
\text{Al}_2\text{O}_3 & \quad 18.1 \\
\text{MgO} & \quad 2.0 \\
\text{CaO} & \quad 4.1 \\
\text{K}_2\text{O} & \quad 3.6 \\
\text{H}_2\text{O}^+ & \quad 17.7 \\
\text{H}_2\text{O}^- & \quad 1.1 \\
\text{Total} & \quad 99.6 
\end{align*}
\]

(1) Mont Sémio, France; Na_2O 0.01% by microspectrochemical analysis; corresponds to \( (K_{1.1}\text{Ca}_{1.1}\text{Mg}_{0.7})_{\Sigma=2.9}\text{Al}_{5.2}\text{Si}_{12.8}\text{O}_{36} \cdot 15\text{H}_2\text{O} \).

**Mineral Group:** Zeolite group.

**Occurrence:** Lining cavities in basalt.

**Association:** Zeolites, especially erionite, levyne, celadonite, montmorillonite.

**Distribution:** From Mont Sémio (Mont Sémio), Montbrison, Loire, France. At a number of localities on the Vogelsberg, Hesse, Germany. In the USA, in Oregon, from Milwaukie, Clackamas Co., at Gordon Gulch, Owyhee Dam, Malheur Co., and Ritter Hot Springs, Grant Co.; in Washington, at Rock Island Dam, Douglas Co.; in Arizona, from Queen Creek, 10 km west of Superior, Pinal Co., and from three km south of Horseshoe Dam, Maricopa Co. From southwest of Westwold, British Columbia, Canada. There are many other occurrences, most overgrowing erionite or levyne.

**Name:** For Professor Albert Jules Joseph Offret (1857–?), of Lyons, France.

**References:**