$\bigodot 2001\mathchar`-2005$ Mineral Data Publishing, version 1

Crystal Data: Monoclinic. *Point Group:* m. Crystals are prismatic, elongated along [100] and tabular on $\{010\}$, to 0.5 mm, showing $\{010\}$, with $\{100\}$, and $\{001\}$, in radiating clusters; as spherical nodules.

Physical Properties: Cleavage: Perfect on $\{010\}$; poor on $\{100\}$ and $\{001\}$. Hardness = ~ 2 D(meas.) = 2.24 D(calc.) = 2.27

Optical Properties: Transparent. Color: Colorless. Streak: White. Luster: Vitreous. Optical Class: Biaxial (-). Orientation: Z = b; $X \wedge c = 25^{\circ}$. $\alpha = 1.496(2)$ $\beta = 1.504(2)$ $\gamma = 1.506(4)$ 2V(meas.) = 52(5)° 2V(calc.) = 52.9°

Cell Data: Space Group: Pc. a = 5.673(4) b = 8.48(1) c = 10.529(5) $\beta = 106.13(6)^{\circ}$ Z = 2

X-ray Powder Pattern: Haledon, New Jersey, USA. 3.06 (100), 2.608 (90), 8.47 (80), 5.44 (80), 4.36 (70), 5.06 (60), 3.87 (60)

Chemistry:

	(1)	(2)
P_2O_5	43.4	42.75
MgO	0.2	
CaO	17.5	16.89
Na_2O	16.5	18.66
$H_2 \bar{O}$	21.8	21.70
Total	99.4	100.00

(1) Haledon, New Jersey, USA; by electron microprobe, H_2O by DTA–TGA; corresponds to $Ca_{1.03}Mg_{0.03}Na_{1.74}(P_{2.00}O_7) \cdot 3.96H_2O$. (2) $CaNa_2(P_2O_7) \cdot 4H_2O$.

Occurrence: On a museum micromount specimen presumably from a trap-rock quarry (Haledon, New Jersey, USA); in recent lake-bed sediments (La Cruz Lake, Spain).

Association: Stilbite, quartz (Haledon, New Jersey, USA).

Distribution: Attributed to [Braens quarry,] Haledon [or Great Notch quarry, near Little Falls], Passaic Co., New Jersey, USA. From La Cruz Lake, Cuenca Province, Spain.

Name: For CAlcium, sodium, NAtrium, and PHosphate in the composition.

Type Material: National Museum of Natural History, Washington, D.C., USA, 160286.

References: (1) Peacor, D.R., P.J. Dunn, W.B Simmons, and F.J. Wicks (1985) Canaphite, a new sodium calcium phosphate hydrate from the Paterson area, New Jersey. Mineral. Record, 16, 467–468. (2) (1986) Amer. Mineral., 71, 1543–1544 (abs. ref. 1). (3) Rouse, R.C., D.R. Peacor, and R.L. Freed (1988) Pyrophosphate groups in the structure of canaphite, CaNa₂P₂O₇•4H₂O: the first occurrence of a condensed phosphate as a mineral. Amer. Mineral., 73, 168–171. (4) Queralt, I., R. Juliá, and F. Plana (1994) Canaphite: an uncommon condensed phosphate in lake sediments. 16th Meeting, Int. Mineral. Assoc., Pisa, Italy, 343 (abs.).