

**Crystal Data:** Monoclinic. *Point Group:* 2. Crystals, elongated on [001], with pseudo-hexagonal cross-sections and sphenoidal terminations, to 0.2 mm.

**Physical Properties:** *Cleavage:* None. *Fracture:* n.d. *Tenacity:* n.d.  
Hardness = n.d. D(meas.) = n.d. D(calc.) = 2.720

**Optical Properties:** Transparent. *Color:* Colorless. *Streak:* n.d. *Luster:* n.d.  
*Optical Class:* Biaxial.  $n(\text{calc.}) = 1.540$   $2V(\text{meas.}) = \text{n.d.}$   $2V(\text{calc.}) = \text{n.d.}$  *Orientation:*  $Z \sim c$ .

**Cell Data:** *Space Group:* C2.  $a = 12.08(3)$   $b = 6.96(1)$   $c = 6.39(2)$   $\beta = 90.2(3)^\circ$   $Z = 1$

**X-ray Powder Pattern:** Omongwa pan, southwestern Kalahari, Namibia.  
3.015 (100), 2.819 (100), 6.005 (75), 3.481 (50), 2.139 (<25), 1.8534 (<25), 1.7437 (<25)

Chemistry:	(1)	(2)
SO <sub>3</sub>	56.16	54.78
CaO	30.82	31.98
Na <sub>2</sub> O	5.25	7.07
K <sub>2</sub> O	3.21	
H <sub>2</sub> O	6.25	6.17
Total	101.69	100.00

(1) Omongwa pan, southwestern Kalahari, Namibia; average of 175 electron microprobe analyses, H<sub>2</sub>O calculated from structure analysis, H<sub>2</sub>O and SO<sub>4</sub> confirmed by Raman spectroscopy, corresponding to (Na<sub>1.47</sub>K<sub>0.59</sub>)<sub>Σ=2.06</sub>Ca<sub>4.76</sub>S<sub>6.07</sub>O<sub>24</sub>·3H<sub>2</sub>O. (2) Na<sub>2</sub>Ca<sub>5</sub>(SO<sub>4</sub>)<sub>6</sub>·3H<sub>2</sub>O.

**Occurrence:** As inclusions in gypsum in a dry lake, closed-basin evaporite deposit.

**Association:** Gypsum.

**Distribution:** From the Omongwa pan, near Aminuis, 140 km SSE of Gobabis, southwestern Kalahari, Namibia.

**Name:** For the locality from which the first specimens were obtained, the Omongwa pan, Namibia; “omongwa” meaning “salt” in the Otjiherero language.

**Type Material:** Royal Museum for Central Africa, Tervuren, Belgium (catalog no. RGM 15.908).

**References:** (1) Mees, F., F. Hatert, and R. Rowe (2008) Omongwaite, Na<sub>2</sub>Ca<sub>5</sub>(SO<sub>4</sub>)<sub>6</sub>·3H<sub>2</sub>O, a new mineral from recent salt lake deposits, Namibia. *Mineral. Mag.*, 72, 1307–1318. (2) (2009) *Amer. Mineral.*, 94, 1499–1500 (abs. ref. 1).