

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 ~ 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 ₃	56.16	54.78
CaO	30.82	31.98
Na ₂ O	5.25	7.07
K ₂ O	3.21	
<u>H₂O</u>	<u>6.25</u>	<u>6.17</u>
Total	101.69	100.00

(1) Omongwa pan, southwestern Kalahari, Namibia; average of 175 electron microprobe analyses, H₂O calculated from structure analysis, H₂O and SO₄ confirmed by Raman spectroscopy, corresponding to (Na_{1.47}K_{0.59})_{Σ=2.06}Ca_{4.76}S_{6.07}O₂₄·3H₂O. (2) Na₂Ca₅(SO₄)₆·3H₂O.

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, Na₂Ca₅(SO₄)₆·3H₂O, a new mineral from recent salt lake deposits, Namibia. *Mineral. Mag.*, 72, 1307–1318. (2) (2009) *Amer. Mineral.*, 94, 1499–1500 (abs. ref. 1).