

Crystal Data: Orthorhombic, pseudocubic. *Point Group:* $2/m\ 2/m\ 2/m$. In crystalline twinned groups and aggregates, to 1 cm; very rarely as single crystals. *Twinning:* As trillings of composite flattened and curved crystals, interpenetrant at right angles, according to an unknown law.

Physical Properties: Hardness = 4–4.5 D(meas.) = 3.84 D(calc.) = 3.847

Optical Properties: Semitransparent. *Color:* White, pale yellow, pale brown, pale greenish yellow.

Optical Class: Isotropic. $n = 1.736$

Cell Data: *Space Group:* $Pmn2_1$. $a = 7.4865$ $b = 7.4379$ $c = 7.4963$ $Z = [8]$

X-ray Powder Pattern: Tsumeb, Namibia.

3.74 (10), 1.669 (7), 2.63 (6), 1.525 (6), 1.867 (4), 2.15 (3.5), 2.36 (3)

Chemistry:	(1)	(2)
SiO ₂	1.8	
Al ₂ O ₃	4.7	
Ga ₂ O ₃	66.8	77.62
Fe ₂ O ₃	2.3	
H ₂ O ⁺	19.6	
H ₂ O [−]	4.2	
H ₂ O		22.38
Total	99.4	100.00

(1) Tsumeb, Namibia. (2) Ga(OH)₃.

Occurrence: An alteration product of gallite-bearing germanite in an oxidation zone of a dolostone-hosted hydrothermal polymetallic ore deposit.

Association: Germanite, gallite.

Distribution: From Tsumeb, Namibia.

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Type Material: n.d.

References: (1) Strunz, H. (1965) Söhngeite, Ga(OH)₃, ein neues Mineral. *Naturwissenschaften*, 52, 493 (in German). (2) (1966) *Amer. Mineral.*, 51, 1815 (abs. ref. 1). (3) Scott, J.D. (1970) Crystal structure of a new mineral, söhngeite. *Amer. Crystallogr. Assoc., Prog. and Abs.*, 76. (4) Pinch, W.W. and W.E. Wilson (1977) [Tsumeb] Minerals: a descriptive list. *Mineral. Record*, 8(3), 32.