

**No. 46A-5 C(NH<sub>2</sub>)<sub>3</sub>Al(SeO<sub>4</sub>)<sub>2</sub> · 6H<sub>2</sub>O, Guanidine aluminum selenate hexahydrate (GASeH)***(M* = 481.07; [*D*: 499.18])

1a	Ferroelectricity in C(NH <sub>2</sub> ) <sub>3</sub> Al(SeO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O (GASeH) was first reported by Holden et al. in 1955.		55Hol
b	phase	I	55Hol
	state	F	
	crystal system	trigonal *)	
	space group	(P31m–C <sub>3v</sub> <sup>2</sup> ) **)	
	$\theta$	none *)	55Hol
	$P_s \parallel [0001]$ .		
	*) See footnotes in 1b of No. 46A-1.		
	**) The same space group as GASH is expected.		
2a	Crystal growth: evaporation of aqueous solution.		56Hol
3a	Unit cell parameters: $a = 11.989 \text{ \AA}$ , $c = 9.062 \text{ \AA}$ at RT.		61Ste
b	$Z = 3$ . Crystal structure: isomorphous with other GASH family compounds; see Fig. 46A-1-002 in No. 46A-1 and Fig. 46A-4-001, Fig. 46A-4-002 in No. 46A-4.		61Ste
4	Linear thermal expansion coefficients: $\alpha_a = 10.16 \cdot 10^{-6} \text{ K}^{-1}$ , $\alpha_c = 83.89 \cdot 10^{-6} \text{ K}^{-1}$ . $0^\circ\text{C} < T < 80^\circ\text{C}$ .		59Hau
5c	Spontaneous polarization: Fig. 46A-5-001.		
8a	Elastic compliances and stiffnesses: see Table 46A-1-006 in No. 46A-1.		
9a	Refractive indices: see Table 46A-1-007 in No. 46A-1.		
e	Nonlinear optical properties: see		62Shi
13a	NQR: see Table 46A-1-008, Table 46A-1-009 in No. 46A-1.		
b	ESR: Table 46A-5-001.		