

No. 46A-7 C(NH₂)₃Ga(SeO₄)₂ · 6H₂O, Guanidine gallium selenate hexahydrate (GGaSeH)*(M* = 523.80; [D: 541.91])

1a	Ferroelectricity in C(NH ₂) ₃ Ga(SeO ₄) ₂ · 6H ₂ O (GGaSeH) was first reported by Holden et al. in 1955.	55Hol										
b	<table><tr><td>phase</td><td>I</td></tr><tr><td>state</td><td>F</td></tr><tr><td>crystal system</td><td>trigonal *)</td></tr><tr><td>space group</td><td>(P31m–C_{3v}²) **)</td></tr><tr><td>Θ</td><td>none *)</td></tr></table> <p><i>P_s</i> [0001].</p> <p>*) See footnotes in 1b of No. 46A-1.</p> <p>**) The same space group as GASH is expected.</p>	phase	I	state	F	crystal system	trigonal *)	space group	(P31m–C _{3v} ²) **)	Θ	none *)	55Hol
phase	I											
state	F											
crystal system	trigonal *)											
space group	(P31m–C _{3v} ²) **)											
Θ	none *)											
2a	Crystal growth: evaporation of aqueous solution.	56Hol										
3a	Unit cell parameters: <i>a</i> = 12.020 Å, <i>c</i> = 9.144 Å at RT.	61Ste										
b	<i>Z</i> = 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: α _{<i>a</i>} = 12.07 · 10 ^{−6} K ^{−1} , α _{<i>c</i>} = 71.16 · 10 ^{−6} K ^{−1} . 0 °C < <i>T</i> < 80 °C.	59Hau										
5c	Spontaneous polarization: Fig. 46A-7-001.											
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 in No. 46A-1.											
b	ESR: Table 46A-7-001.											
15a	Domain structure observed by powder-pattern technique: see	59Pea										