

No. 46A-4 C(NH₂)₃Ga(SO₄)₂ · 6H₂O, Guanidine gallium sulfate hexahydrate (GGaSH)*(M* = 430.00; [*D*: 448.11])

1a	Ferroelectricity in C(NH ₂) ₃ Ga(SO ₄) ₂ · 6H ₂ O (GGaSH) was first reported by Holden et al. in 1955.		55Hol
b	phase	I	55Hol
	state	F	
	crystal system	trigonal *)	
	space group	P31m–C _{3v} ²	
	Θ	none *)	
	$P_s \parallel [0001]$.		55Hol
	*) See footnotes in 1b of No. 46A-1.		
2a	Crystal growth: evaporation of aqueous solution.		56Hol
3a	Unit cell parameters: $a = 11.82(3) \text{ \AA}$, $c = 9.13(3) \text{ \AA}$ at RT.		59Gel
b	$Z = 3$. Crystal structure: Table 46A-4-001, Table 46A-4-002; Fig. 46A-4-001, Fig. 46A-4-002.		59Gel
4	Linear thermal expansion coefficients: $\alpha_a = 14.17 \cdot 10^{-6} \text{ K}^{-1}$, $\alpha_c = 83.85 \cdot 10^{-6} \text{ K}^{-1}$. $0^\circ\text{C} < T < 80^\circ\text{C}$.		59Hau
5c	Spontaneous polarization and coercive field: Fig. 46A-4-003, Fig. 46A-4-004.		
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.		
13a	NQR: see Table 46A-1-008, Table 46A-1-009 in No. 46A-1.		
b	ESR: Table 46A-4-003.		