

No. 31A-6 $\text{TiH}_3(\text{SeO}_3)_2$, Thallium trihydrogen selenite $(M = 461.32; [\text{D}: 464.34])$

1a	It was reported by Shuvalov et al. in 1984 that $\text{TiH}_3(\text{SeO}_3)_2$ has the upper and lower transition temperatures at 56.4 K and 51.6 K, and is ferroelectric below 51.6 K.				84Shu
b	phase	III	II	I	84Shu
	state	F		P	
	crystal system			orthorhombic	
	space group			$\text{P2}_1\text{2}_1\text{2}_1\text{-D}_2^4$	
	θ [K]	51.6		56.4	
	$\rho = 4.575(2) \cdot 10^3 \text{ kg m}^{-3}$.				83Shu
3a	Unit cell parameters: $a = 5.958(2) \text{ \AA}$, $b = 6.148(1) \text{ \AA}$, $c = 17.966(8) \text{ \AA}$ at RT.				83Shu
b	$Z = 4$. Crystal structure: Table 31A-6-001, Table 31A-6-002; Fig. 31A-6-001.				83Shu
5a	Dielectric constants: Fig. 31A-6-002.				
8a	Elastic compliances: Fig. 31A-6-003.				