

No. 1B-b16 $\text{Pb}(\text{Mn}_{1/2}\text{W}_{1/2})\text{O}_3$
($M = 374.6$)

1a	Synthesis of $\text{Pb}(\text{Mn}_{1/2}\text{W}_{1/2})\text{O}_3$ was reported by Venevtsev et al..		64Ven
b	phase	II	I
	state	(A), P_{magn}	P, P_{magn}
	crystal system	monoclinic	cubic
	Θ [K]	473	
3a	$a = c = 4.063 \text{ \AA}$, $b = 4.033 \text{ \AA}$, $\beta = 90^\circ 12'$ at RT.		65Fil
b	Neutron diffraction patterns were taken at RT and liquid helium temperatures. The data obtained allow the conclusion that the compound is described by the formula Pb_2MnWO_6 with ordered arrangement of the Mn^{2+} and W^{6+} ions, resulting in the doubling of the initial cell parameters along all three axes. The presence of magnetic ordering is not found to liquid helium temperatures by the neutron diffraction.		69Kis 69Kis
5a	Dielectric constant: Fig. 1B-b16-001.		
11	Electrical conductivity: $\sigma = 8 \cdot 10^{-8} \Omega^{-1} \text{m}^{-1}$ at RT.		
12	Magnetic susceptibility: Fig. 1B-b16-001.		

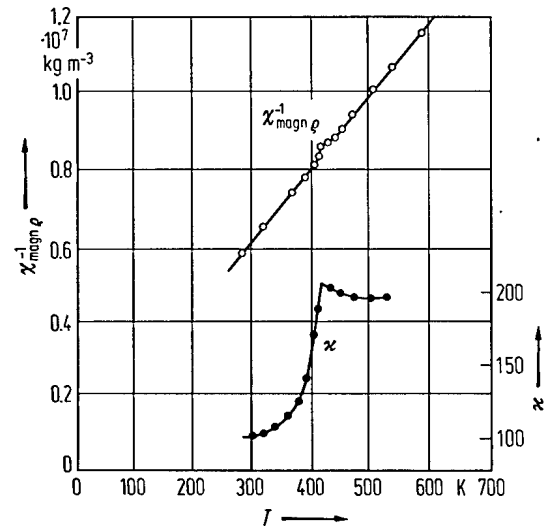


Fig. 1B-b16-001. $\text{Pb}(\text{Mn}_{1/2}\text{W}_{1/2})\text{O}_3$. κ , $\chi_{\text{magn } \rho}^{-1}$ vs. T
[65Rog]. $f = 200 \text{ kHz}$.

References

- 64Ven Venetsev, Yu.N., Roginskaya, Yu.E., Viskov, A.S., Ivanova, V.V., Tomashpol'skii, Yu.Ya., Shvorneva, L.I., Kapyshev, A.G., Teverpvsii, A.Yu., Zhdanov, G.S.: Dokl. Akad. Nauk SSSR **158** (1964) 86; Sov. Phys. Dokl. (English Transl.) **9** (1965) 751.
- 65Fil Filip'ev, V.S., Fesenko, E.G.: Izv. Akad. Nauk SSSR, Ser. Fiz. **29** (1965) 894; Bull. Acad. Sci. USSR, Phys. Ser. (English Transl.) **29** (1965) 900.
- 65Rog Roginskaya, Yu.E., Venetsev, Yu.N., Zhdanov, G.S.: Zh. Eksp. Teor. Fiz. **48** (1965) 1224; Sov. Phys. JETP (English Transl.) **21** (1965) 817.
- 69Kis Kiselev, S.V., Ozerov, R.P.: Fiz. Tverd. Tela **11** (1969) 1396; Sov. Phys. Solid State (English Transl.) **11** (1969) 1133.