

Fig. 45A-6-001. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). Crystal forms [56Jon]. (a): octahedral form, (b): hexagonal plate form.

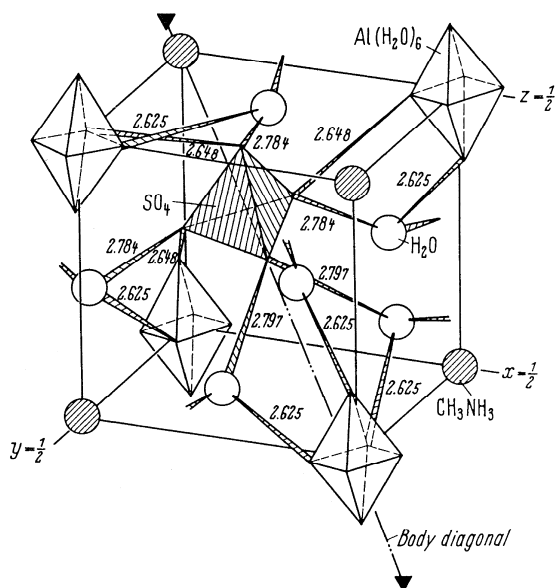


Fig. 45A-6-002. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). Crystal structure of phase I [57Oka]. A sketch of one eighth of the unit cell. Hydrogen bonds are shown by shaded, directed lines. Distances in [Å].

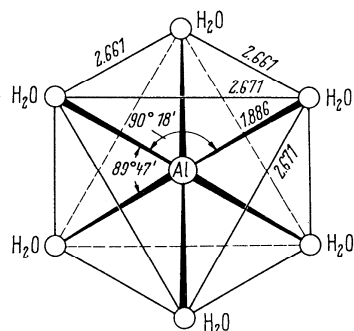


Fig. 45A-6-003. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). Crystal structure of phase I [57Oka]. Shape and size of $\text{Al}(\text{H}_2\text{O})_6$ octahedron. Distances in [Å].

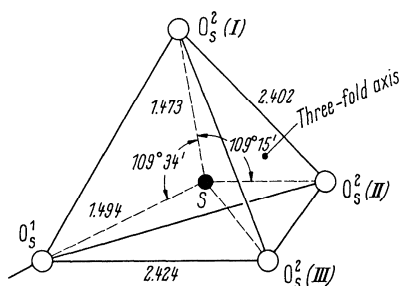


Fig. 45A-6-004. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). Crystal structure of phase I [57Oka]. Shape and size of SO_4 tetrahedron. Distances in [Å]. The oxygen O_S^1 is equivalent to $\text{O}_{S(1)}$ in Table 45A-6-001. The oxygen $\text{O}_S^2(I)$, $\text{O}_S^2(II)$ and $\text{O}_S^2(III)$ are related to each other by the three-fold axis and equivalent to $\text{O}_{S(2)}$ in Table 45A-6-001.

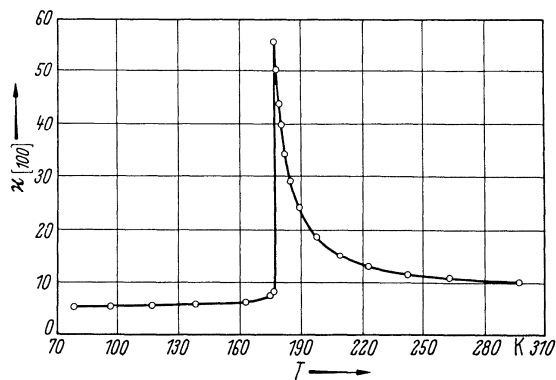


Fig. 45A-6-005. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). κ_{100} vs. T [57Jon]. $f = 10$ kHz.

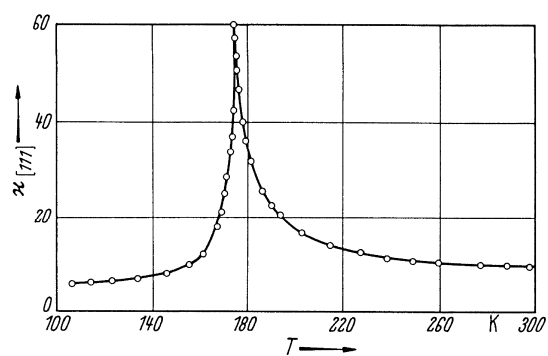


Fig. 45A-6-006. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). $\kappa_{[111]}$ vs. T [56Pep].

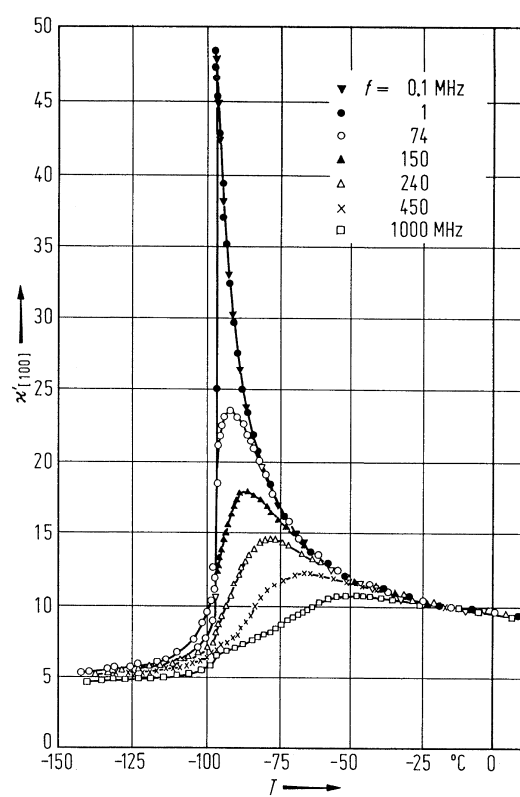


Fig. 45A-6-007. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). $\kappa'_{[100]}$ vs. T [71Mak]. Parameter: f .

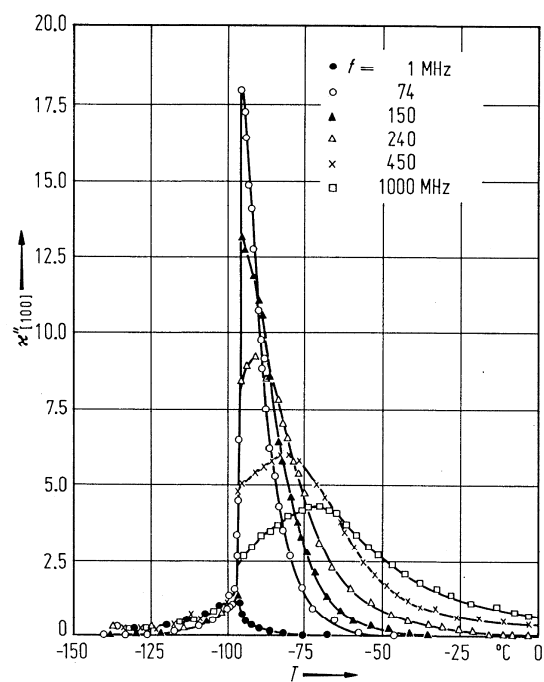


Fig. 45A-6-008. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). $\kappa''_{[100]}$ vs. T [71Mak]. Parameter: f .

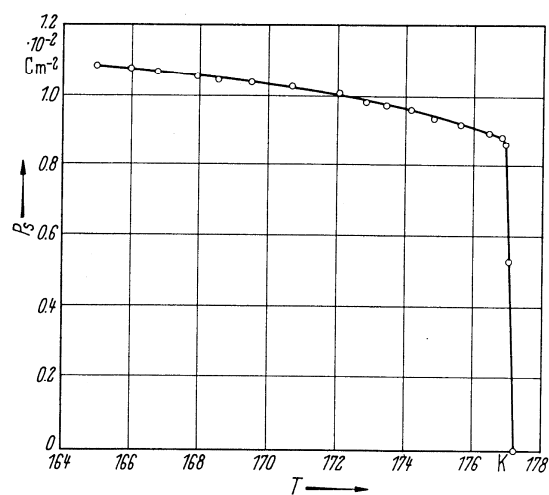


Fig. 45A-6-009. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). P_s vs. T [57Jon].

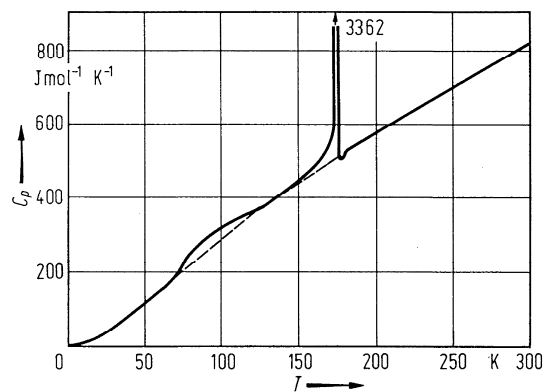


Fig. 45A-6-010. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). C_p vs. T [68Ash]. C_p : molar heat capacity at constant pressure.

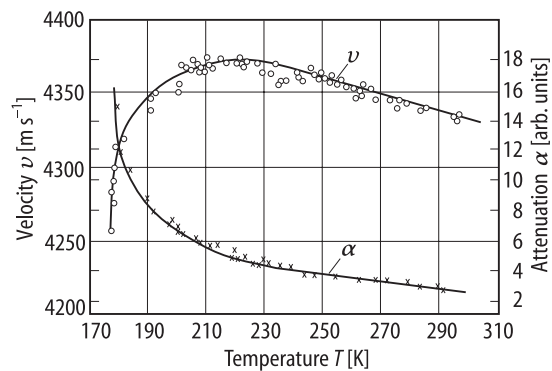


Fig. 45A-6-011. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). v , α vs. T [69Ale]. v : velocity of longitudinal elastic waves in the [100] direction, α : attenuation for the [100] direction (relative value).

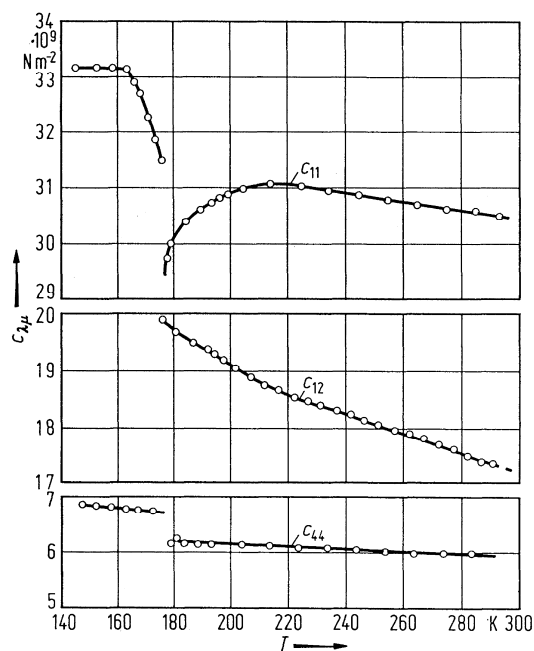


Fig. 45A-6-012. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). $c_{\lambda\mu}$ vs. T [69Ale].

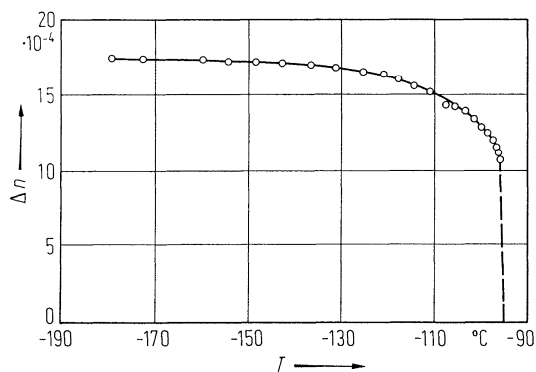


Fig. 45A-6-013. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). Δn vs. T [72Ani]. Δn : birefringence. $\lambda = 633$ nm.

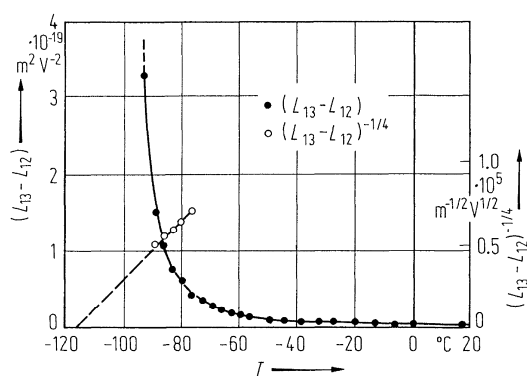


Fig. 45A-6-014. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). $L_{13} - L_{12}$, $(L_{13} - L_{12})^{-1/4}$ vs. T [72Ani]. $L_{\lambda\mu}$: quadratic electrooptic constant. $\lambda = 633$ nm.

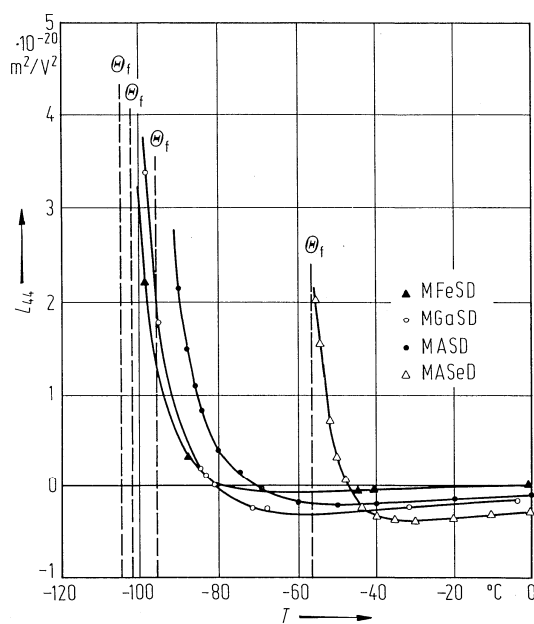


Fig. 45A-6-015. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD), $\text{CH}_3\text{NH}_3\text{Al}(\text{SeO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MSeD), $\text{CH}_3\text{NH}_3\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MFeSD), $\text{CH}_3\text{NH}_3\text{Ga}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MGaSD). L_{44} vs. T [79Web1]. $\lambda = 633$ nm. L_{44} : quadratic electrooptic constant for E .

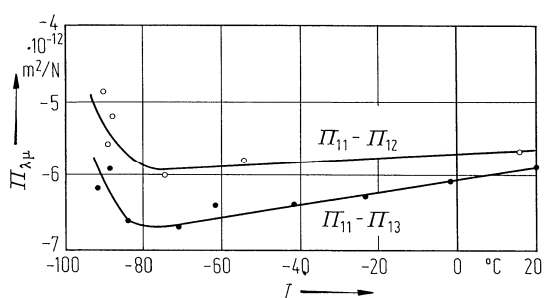


Fig. 45A-6-016. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). $II_{\lambda\mu}$ vs. T [79Web1]. $II_{\lambda\mu}$: piezooptic constant for T .

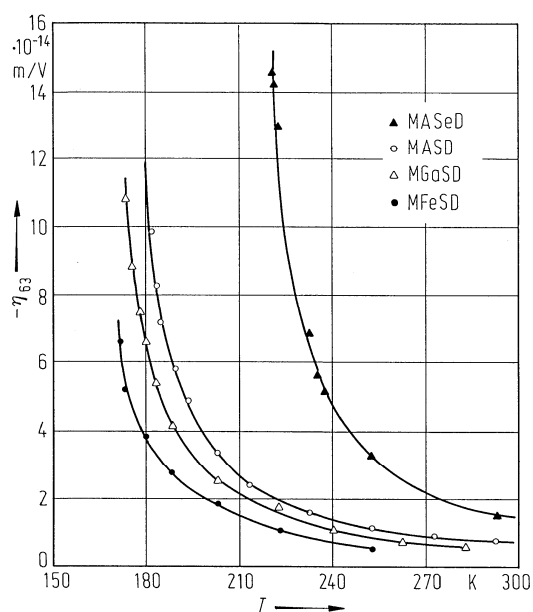


Fig. 45A-6-017. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD), $\text{CH}_3\text{NH}_3\text{Al}(\text{SeO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MAlSeD), $\text{CH}_3\text{NH}_3\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MFeSD), $\text{CH}_3\text{NH}_3\text{Ga}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MGaSD). η_{63} vs. T [79Web2]. η_{63} : electrogyration coefficient for E . $\lambda = 550$ nm.

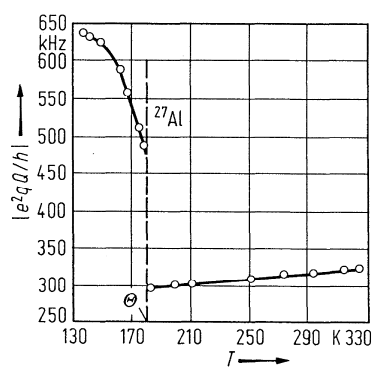


Fig. 45A-6-018. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). $|e^2qQ/h|$ vs. T [69Vin].

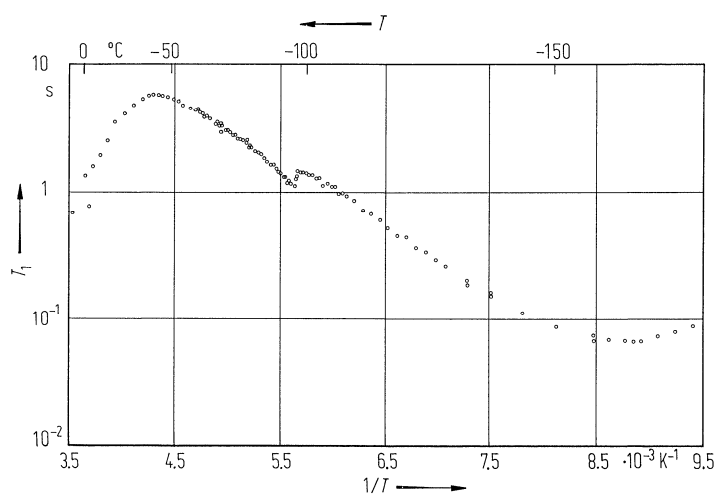


Fig. 45A-6-019. $\text{CH}_3\text{NH}_3\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ (MASD). T_1 vs. $1/T$ [80Nak]. T_1 : proton spin-lattice relaxation time.