
No. 2B-13 Li₂O–Ta₂O₅–M₂O₃ (M = Al, Cr, Fe, In)

1b Ferroelectric transition temperature: Fig. 2B-13-001, Fig. 2B-13-002.
Phase diagram: Fig. 2B-13-003.

3a Unit cell parameters: Fig. 2B-13-004.

5a Dielectric constant: Fig. 2B-13-005.
Curie constant: Fig. 2B-13-002.

14c EXAFS of Co and Fe doped crystals: see

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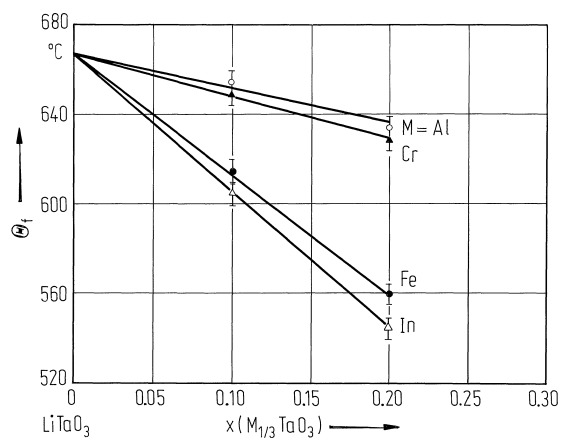


Fig. 2B-13-001. Li_{1-x}M_{x/3}TaO₃ (M = Al, Cr, Fe, In). Θ_f vs. x [85Joo].

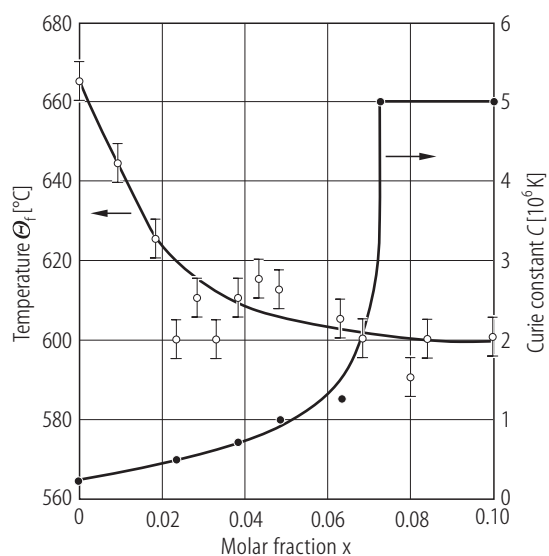


Fig. 2B-13-002. $(1-x)\text{LiTaO}_3 \cdot x\text{Fe}_2\text{O}_3$. Θ_f , C vs. x [87Elo].
 C : Curie constant.

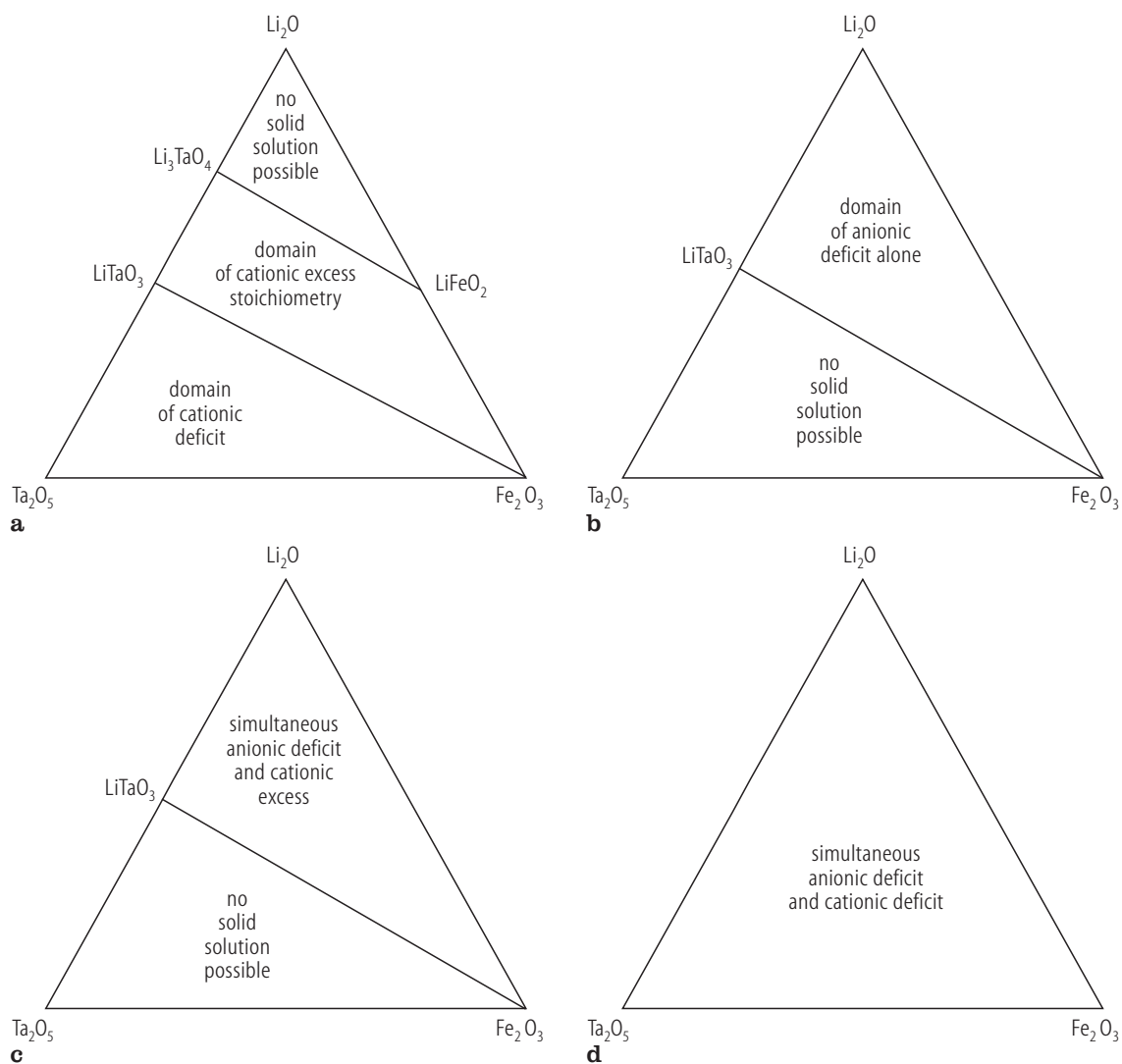


Fig. 2B-13-003. $\text{Li}_2\text{O}-\text{Ta}_2\text{O}_5-\text{Fe}_2\text{O}_3$. Area of various types of non-stoichiometry within the ternary system [88Elo].

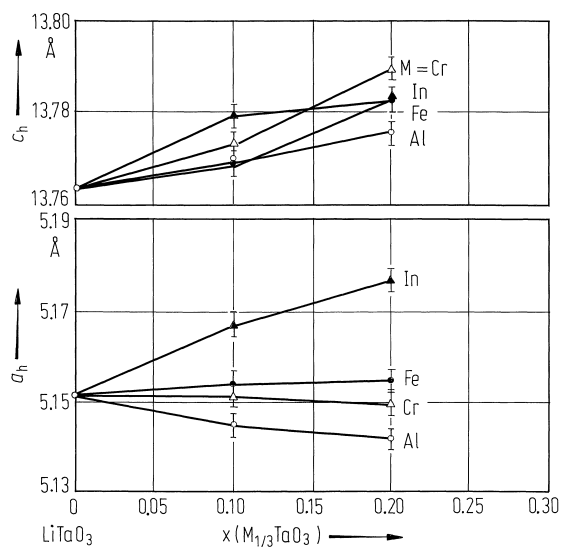


Fig. 2B-13-004. $\text{Li}_{1-x}\text{M}_{x/3}\text{TaO}_3$ ($M = \text{Al}, \text{Cr}, \text{Fe}, \text{In}$). Unit cell parameters vs. x [85Joo].

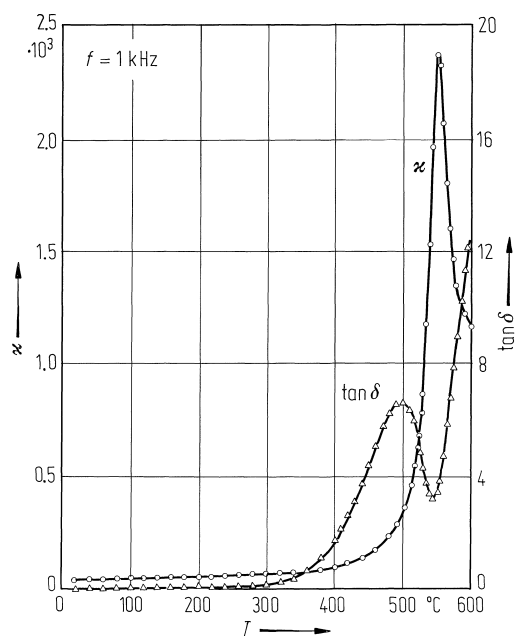


Fig. 2B-13-005. $\text{Li}_{0.800}\text{In}_{0.067}\text{TaO}_3$ (ceramics). κ , $\tan \delta$ vs. T [85Joo]. $f = 1 \text{ kHz}$.

References

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