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## Regularities in the Distribution of TTA and its Scandium Chelate into a Series of Ether Solvents\*

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### Abstract

The distribution of a powerful chelating agent, TTA, and its typical trivalent metal chelate, that of scandium (III), between aqueous perchlorate solution ( $\mu=0.1$ ) and 12 ether solvents was determined at 25°. A good correlation was found between the distribution coefficient of TTA and the "solubility parameter" of the ether solvents, except bis(2-chloroethyl)ether. The distribution coefficient of the scandium chelate ( $P_M$ ) was compared with that of TTA ( $P_{HA}$ ), and it was confirmed that the relationship expressed by  $\log P_M = n \log P_{HA} + \text{const.}$ , is valid for the present system.

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