

Title	Solubilization of thiamine disulfide by fatty acid or its analog in 1, 2-dichloroethane
Sub Title	
Author	小股, 泰子(Komata, Yasuko) 金子, 明子(Kaneko, Akiko) 藤江, 忠雄(Fujie, Tadao)
Publisher	共立薬科大学
Publication year	1993
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.38 (1993.) ,p.80- 80
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000038-0080

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the KeiO Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

Solubilization of Thiamine Disulfide by Fatty Acid or Its Analog in 1,2-Dichloroethane*

Yasuko KOMATA, Akiko KANEKO and Tadao FUJIE

小股泰子, 金子明子, 藤江忠雄

The solubility change of thiamine disulfide (TDS) in 1,2-dichloroethane by the addition of fatty acid (FA), fatty alcohol or fatty acid methyl ester was determined by phase solubility analysis at 25°C. The solubility of TDS increased linearly with added concentrations of stearic acid, palmitic acid or myristic acid, but the diagram did not exhibit a plateau due to the appearance of a solid complex. The dependency of the FA slope values on the number of carbon atoms in FA was very little. The solubility of TDS also increased linearly with added concentrations of stearyl alcohol, while the value for the slope was smaller than FA. On the other hand, the solubility of TDS decreased by the addition of stearic acid methyl ester. The results agreed well with those for the solubilization of cycotiamine, a thiamine derivative, by FA and FA analogs in 1,2-dichloroethane.

* 本報告は *Chem. Pharm. Bull.*, **40** (12), 3311—3313 (1992) に発表。