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Hygroscopicity and Dissolution of Thiamine Disulfide-Higher Fatty Acids Complexes*

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The hygroscopicity of the complexes composed of thiamine disulfide (TDS) and higher fatty acids and the dissolution of TDS from the complexes were studied. The hygroscopicity of TDS was reduced dramatically by the formation of the (fatty acid)$_6$ (TDS) complexes. Regarding the dissolution of TDS from the complexes, plots of T_{50} or T_{80} (the time required for 50% or 80% of TDS to dissolve, respectively) against the carbon numbers of the constituent fatty acids showed a zig-zag pattern, and C 17 fatty acid gave the longest T_{50} and T_{80}.

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