**Supporting information** 

Solubility and Thermodynamic Analysis of Tenoxicam in Different Pure Solvents at

**Different Temperatures** 

Faiyaz Shakeel<sup>a,b\*</sup>, Nazrul Haq<sup>a,b</sup>, Gamal A. Shazly<sup>b,c</sup>, Fars K. Alanazi<sup>b</sup>, Ibrahim A. Alsarra<sup>a,b</sup>

<sup>a</sup>Center of Excellence in Biotechnology Research, College of Science, King Saud University,

P.O. Box 2460, Riyadh 11451, Saudi Arabia

<sup>b</sup>Kayyali Chair for Pharmaceutical Industry, Department of Pharmaceutics, College of

Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia

<sup>c</sup>Department of Industrial Pharmacy, Faculty of Pharmacy, Assiut University, Assiut, Egypt

\*Corresponding Author:

Dr. Faiyaz Shakeel

Center of Excellence in Biotechnology Research,

College of Science, King Saud University,

Riyadh, Saudi Arabia

Phone: +966-537507318

Email: faiyazs@fastmail.fm

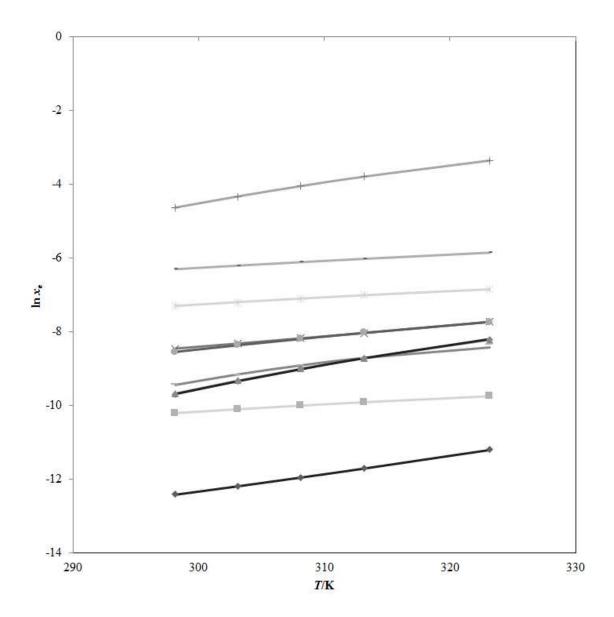


Figure S1 Correlation of experimental solubilities of crystalline TNX with the modified Apelblat model in different pure solvents at T = (298.15 to 323.15) K; \*water, ethanol,  $\triangle$  IPA,  $\times$  EG,  $^{\times}$  EA,  $^{\bullet}$  PG,  $^{+}$  PEG-400, - Transcutol,  $^{-}$  1-butanol and  $^{\bullet}$  2-butanol (solid lines represent the calculated solubilities of TNX calculated by the modified Apelblat model)

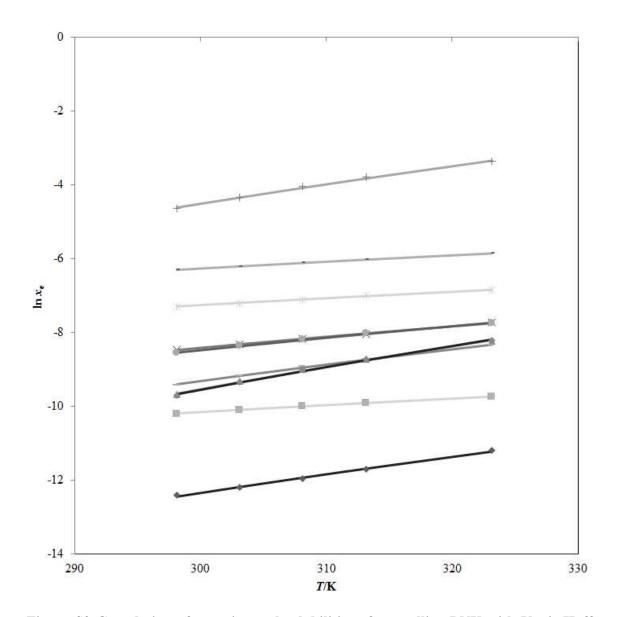


Figure S2 Correlation of experimental solubilities of crystalline LNX with Van't Hoff model in different pure solvents at T = (298.15 to 323.15) K; water, ethanol, IPA,  $\times$  EG,  $\times$  EA, PG, +PEG-400, - Transcutol, - 1-butanol and 2-butanol (solid lines represent the calculated solubilities of TNX calculated by Van't Hoff model)

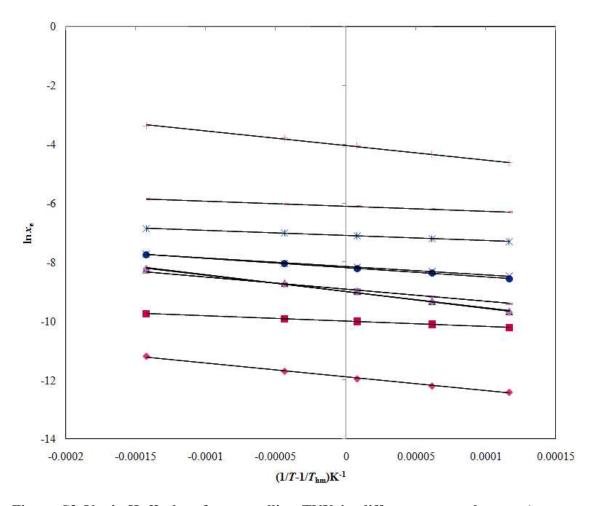


Figure S3 Van't Hoff plots for crystalline TNX in different pure solvents; ◆water,

■ ethanol, ▲IPA, × EG, \* EA, ●PG, +PEG-400, - Transcutol, - 1-butanol and ◆ 2-butanol