**Supplementary Data**

**Significant increase in the solubility of celecoxib in presence of some deep eutectic solvents as novel sustainable solvents and the thermodynamic analysis of these systems**

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**Table S1**

The parameters of Jouyban-Acree model for the CLX in the aqueous DES solutions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *T* | *J*0 | *J*1 | *J*2 | *ARD* % |
|  | CLX + water + ChCl / EG | | |  |
| 298.15 K | -2014.805 | 2034.852 | 3462.572 | 18.48 |
| 303.15 K | 806.772 | 5646.643 | -106.856 | 62.71 |
| 308.15 K | -1198.499 | 4572.321 | 8687.195 | 29.69 |
| 313.15 K | -420.666 | 4728.628 | 6860.147 | 40.66 |
|  | CLX + water + ChCl / Gly | | |  |
| 298.15 K | -639.002 | 393.986 | 2967.65 | 9.71 |
| 303.15 K | -1624.883 | 4279.356 | 4779.487 | 24.37 |
| 308.15 K | -1498.165 | 4218.897 | 6143.467 | 14.83 |
| 313.15 K | -599.221 | 4342.192 | 5230.347 | 26.29 |
|  | CLX + water + ChCl / MA | | |  |
| 298.15 K | -1649.509 | 1083.983 | 4526.714 | 17.11 |
| 303.15 K | -447.384 | 5105.001 | 8043.476 | 36.12 |
| 308.15 K | 781.100 | 4641.541 | 7512.344 | 33.57 |
| 313.15 K | 695.420 | 4550.508 | 8104.12 | 26.45 |
|  | CLX + water + ChCl / U | | |  |
| 298.15 K | -1033.041 | 1709.66 | 3283.734 | 24.86 |
| 303.15 K | -1548.594 | 5215.054 | 6404.604 | 21.27 |
| 308.15 K | -1125.793 | 4540.431 | 7604.166 | 20.88 |
| 313.15 K | -643.468 | 4184.107 | 7094.111 | 22.46 |

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