**SUPPLEMENTARY MATERIAL TO**

**Densities, refractive indices and viscosities of the binary mixtures of dimethyl phthalate or dimethyl adipate with tetrahydrofuran**

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TABLE S-I. Densities, \( \rho \), excess molar volumes, \( V^E \), refractive indices, \( n_D \), refractive index deviations, \( \Delta n_D \), viscosities, \( \eta \), and viscosity deviations, \( \Delta \eta \), for the investigated binary mixtures at different temperatures (288.15 to 323.15 K) and atmospheric pressure

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<th>( \rho ) / ( 10^3 ) kg m(^{-3})</th>
<th>( V^E ) / ( 10^{-6} ) m(^{3}) mol(^{-1})</th>
<th>( n_D )</th>
<th>( \Delta n_D )</th>
<th>( \eta ) / mPa s</th>
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\( T = 288.15 \) K

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\( T = 293.15 \) K
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</tr>
<tr>
<td>1.0000</td>
<td>1.042427</td>
<td>$-0.0257$</td>
<td>1.42017</td>
<td>0.0012</td>
<td>2.1214</td>
</tr>
<tr>
<td>$T = 313.15$ K</td>
<td></td>
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<tr>
<td>0.0000</td>
<td>0.860201</td>
<td>$-1.39357$</td>
<td>0.39564</td>
<td>$-0.0505$</td>
<td></td>
</tr>
<tr>
<td>0.1000</td>
<td>0.893035</td>
<td>$-0.0571$</td>
<td>1.39841</td>
<td>0.0024</td>
<td>0.49891</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$x_1$</td>
<td>$\rho / 10^3$ kg m$^{-3}$</td>
<td>$\rho^E / 10^5$ m$^3$ mol$^{-1}$</td>
<td>$n_D$</td>
<td>$\Delta n_D$</td>
<td>$\eta / \text{mPa s}$</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------</td>
<td>-----------------</td>
<td>------</td>
<td>------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>0.2000</td>
<td>0.920275</td>
<td>$-0.0990$</td>
<td>1.40226</td>
<td>0.0038</td>
<td>0.62048</td>
</tr>
<tr>
<td>0.3000</td>
<td>0.943148</td>
<td>$-0.1198$</td>
<td>1.40544</td>
<td>0.0045</td>
<td>0.75434</td>
</tr>
<tr>
<td>0.3994</td>
<td>0.962501</td>
<td>$-0.1233$</td>
<td>1.40808</td>
<td>0.0047</td>
<td>0.90596</td>
</tr>
<tr>
<td>0.5001</td>
<td>0.979394</td>
<td>$-0.1151$</td>
<td>1.41038</td>
<td>0.0045</td>
<td>1.0630</td>
</tr>
<tr>
<td>0.5999</td>
<td>0.992751</td>
<td>$-0.1030$</td>
<td>1.41217</td>
<td>0.0041</td>
<td>1.2060</td>
</tr>
<tr>
<td>0.5999</td>
<td>0.993991</td>
<td>$-0.1017$</td>
<td>1.41235</td>
<td>0.0040</td>
<td>1.2209</td>
</tr>
<tr>
<td>0.7003</td>
<td>1.006909</td>
<td>$-0.0838$</td>
<td>1.41408</td>
<td>0.0033</td>
<td>1.3824</td>
</tr>
<tr>
<td>0.7999</td>
<td>1.018258</td>
<td>$-0.0607$</td>
<td>1.41557</td>
<td>0.0023</td>
<td>1.5555</td>
</tr>
<tr>
<td>0.8996</td>
<td>1.028379</td>
<td>$-0.0310$</td>
<td>1.41691</td>
<td>0.0012</td>
<td>1.7425</td>
</tr>
<tr>
<td>1.0000</td>
<td>1.037539</td>
<td>$-0.0000$</td>
<td>1.41819</td>
<td>$-0.0000$</td>
<td>1.9332</td>
</tr>
</tbody>
</table>

$T = 318.15$ K

| $T = 323.15$ K |
|-----------------|-----------------|------|------------|-----------------|-----------------|
| 0.0000 | 0.854545 | $-0.0000$ | 1.39088 | $-0.0000$ | 0.34173 | $-0.0000$ |
| 0.1000 | 0.887537 | $-0.0560$ | 1.39578 | 0.0024 | 0.47056 | $-0.0160$ |
| 0.2000 | 0.914900 | $-0.1113$ | 1.39974 | 0.0038 | 0.58774 | $-0.0436$ |
| 0.3000 | 0.937873 | $-0.1342$ | 1.40300 | 0.0046 | 0.71316 | $-0.0631$ |
| 0.3994 | 0.957311 | $-0.1385$ | 1.40576 | 0.0048 | 0.84589 | $-0.0743$ |
| 0.5001 | 0.974273 | $-0.1294$ | 1.40812 | 0.0046 | 0.99290 | $-0.0731$ |
| 0.5909 | 0.987687 | $-0.1162$ | 1.40998 | 0.0042 | 1.1317 | $-0.0658$ |
| 0.5999 | 0.988931 | $-0.1147$ | 1.41015 | 0.0041 | 1.1464 | $-0.0641$ |
| 0.7003 | 1.001900 | $-0.0944$ | 1.41191 | 0.0033 | 1.3023 | $-0.0537$ |
| 0.7999 | 1.013293 | $-0.0683$ | 1.41348 | 0.0024 | 1.4580 | $-0.0422$ |
| 0.8996 | 1.023450 | $-0.0348$ | 1.41483 | 0.0012 | 1.6189 | $-0.0257$ |
| 1.0000 | 1.032645 | $-0.0000$ | 1.41614 | $-0.0000$ | 1.7900 | $-0.0000$ |