

Density and Refractive Index for Binary Systems of the Ionic Liquid [Bmim][BF₄] with Methanol, 1,3-Dichloropropane and Dimethyl Carbonate

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Table 2 Experimental corrected densities ($\rho/\text{cm}^3 \cdot \text{mol}^{-1}$) of the binary systems of $x\{[\text{Bmim}][\text{BF}_4]\} + (1-x)\{\text{methanol or 1,3-dichloropropane or dimethyl carbonate}\}$ at several temperatures

x	[Bmim][BF ₄] + methanol							
	$T = 293.15 \text{ K}$	$T = 298.15 \text{ K}$	$T = 303.15 \text{ K}$	$T = 308.15 \text{ K}$	$T = 313.15 \text{ K}$	$T = 318.15 \text{ K}$	$T = 323.15 \text{ K}$	
0	0.7913	0.7865	0.7818	0.7771	0.7723	0.7675	0.7626	
0.0486	0.8772	0.8727	0.8682	0.8637	0.8592	0.8546	0.8501	
0.0988	0.9397	0.9354	0.9310	0.9267	0.9223	0.9180	0.9136	
0.1505	0.9873	0.9830	0.9788	0.9745	0.9703	0.9661	0.9618	
0.1987	1.0220	1.0178	1.0137	1.0095	1.0054	1.0012	0.9971	
0.2541	1.0534	1.0494	1.0453	1.0412	1.0372	1.0331	1.0291	
0.3235	1.0842	1.0802	1.0762	1.0722	1.0683	1.0643	1.0604	
0.3721	1.1015	1.0976	1.0936	1.0897	1.0858	1.0819	1.0780	
0.4517	1.1245	1.1206	1.1168	1.1129	1.1091	1.1053	1.1015	
0.5740	1.1518	1.1481	1.1443	1.1406	1.1368	1.1331	1.1294	
0.6729	1.1682	1.1645	1.1608	1.1571	1.1534	1.1497	1.1461	
0.7342	1.1770	1.1733	1.1697	1.1660	1.1624	1.1587	1.1551	
0.7847	1.1835	1.1798	1.1762	1.1725	1.1689	1.1653	1.1617	
0.8423	1.1902	1.1865	1.1829	1.1793	1.1757	1.1721	1.1686	
0.9038	1.1964	1.1927	1.1892	1.1856	1.1820	1.1784	1.1749	
1	1.2049	1.2013	1.1978	1.1942	1.1907	1.1872	1.1837	