

Electronic Supplementary Information (ESI)

Design of ionic liquids: ecotoxicity (*V. fischeri*) discrimination approach

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Table S1: Detailed ecotoxicity (*V. fischeri*) data used to assign a mean log EC₅₀ value in the database when more than one result was available for the same ionic liquid.

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Compound	Values of logEC ₅₀ (μmol/L)	Refs.	Mean logEC ₅₀ value used (μmol/L)
[C ₂ MIM][(2-OPhO) ₂ B]	3.00	26	2.98
	2.96	74	
[C ₂ MIM][Cl]	4.33	40	4.44
	4.55	68	
[C ₄ MIM][PF ₆]	3.07	29	3.29
	3.51	74	
[C ₄ MIM][BF ₄]	3.54	26	3.43
	3.10	29	
	3.55	39	
	3.55	74	
[C ₄ MIM][Br]	3.27	29	3.45
	4.01	37	
	3.07	39	
[C ₄ MIM][Cl]	3.40	26	3.41
	3.34	29	
	3.39	38	
	3.47	40	
	3.47	74	
[C ₄ MIM][8OSO ₃]	1.85	26	1.83
	1.82	74	
[C ₄ MIM][N(CF ₃ SO ₂) ₂]	3.39	3	2.78
	2.48	26	
	2.47	74	
[C ₄ MIM][N(CF ₃) ₂]	3.48	26	3.47
	3.46	74	
[C ₄ MIM] [pTS]	3.52	39	3.52
	3.53	74	
[C ₆ MIM][Cl]	2.32	29	2.15
	2.18	38	
	1.94	68	
[C ₆ MIM][PF ₆]	2.17	29	2.14
	2.11	38	
[C ₇ MIM][BF ₄]	2.44	39	2.44
	2.44	74	
[C ₈ MIM][Cl]	1.19	29	1.05
	0.94	38	
	1.01	40	
[C ₈ MIM][PF ₆]	0.95	29	0.82

	0.70	38	
[C ₈ MIM][BF ₄]	1.41	39	1.40
	1.40	74	
[C ₁₀ MIM][Cl]	0.50	39	0.13
	-0.23	40	
[C ₁₈ MIM][Cl]	1.45	40	1.35
	1.26	74	
[C ₄ MMPy][Br]	2.69	37	2.59
	2.49	42	
[C ₄ MMPy][N(CN) ₂]	2.38	37	2.12
	1.86	42	
[C ₄ Py][Cl]	3.41	37	3.29
	3.18	40	

Note: The reference numbers refer to the list of bibliographic references included in the article.