

Supplementary material: Coordinates in PCA space and bibliographical sources for the listed green solvents.

NAME	CAS	F1	F2	F3	F4	Sources	NAME	CAS	F1	F2	F3	F4	Sources	NAME	CAS	F1	F2	F3	F4	Sources																																																																																																																																																																																																																																																																																																						
<b>Cluster II: Weak electron pair donor bases</b>						<b>Cluster III: Aprotic dipolar</b>						<b>Cluster IV: Aprotic highly dipolar</b>						<b>Cluster V: Apolar</b>						<b>Cluster VI: Amphiprotic</b>						<b>Cluster VII: Amphiprotic continued</b>						<b>Cluster VIII: Polar protic</b>						<b>Cluster IX: Organic acidic compounds</b>						<b>Cluster X: Polar structured</b>						<b>Ionic liquids</b>																																																																																																																																																																																																																																																																				
Acetone	67-64-1	-1.7	-3.2	-3.4	-2.4	A, B	Methyl Linoleate	112-63-0	3.8	-1.4	0.9	0.8	E	Glycerol-1,2-dibutyl ether	91337-36-9	-0.3	-1.4	2.8	0.4	C6	Methyl linolenate	301-00-8	3.7	-1.3	0.7	0.6	E	Glycerol-1,2-diethyl ether	4756-20-1	-2.1	-0.5	2.3	-0.5	C6	Glycerol-1,2-dimethyl ether	40453-77-8	-2.6	-0.7	0.7	-1.0	C6	Glycerol-1,3-dimethyl ether	623-69-8	-2.6	-0.1	1.2	-0.8	C6	Glycerol-1-butyl monoether	624-52-2	-1.7	0.0	1.9	0.2	C6	Glycerol-1-ethyl monoether	1874-62-0	-3.7	1.8	1.8	0.0	C6	Glycerol-2-butyl monoether	100078-36-2	-3.6	1.6	2.5	0.3	C6	Glycerol-2-ethyl monoether	22598-16-9	-4.3	1.6	1.2	-0.2	C6	Glycofurool (n=2)	52814-38-7	-2.5	-1.0	1.5	-0.7	C6	N,N-Diethylolcapramide	136-26-5	-2.9	0.1	3.4	0.0	C1	Caprylic acid diethanolamide	3077-30-3	-3.1	-0.2	2.7	-0.1	C1	Isoamyl alcohol	123-51-3	-2.5	1.9	3.7	1.0	D, E	Isopropyl alcohol	67-63-0	-3.5	1.6	2.9	1.2	A, B	Methyl ricinoleate	141-24-2	-0.5	1.0	3.4	0.1	E	Menthanol	498-81-7	-0.9	1.1	4.3	1.4	C3	Nopol	128-50-7	-1.1	0.5	4.0	1.0	C3	1-Octanol	111-87-5	-1.5	1.7	4.3	1.3	C1	Oleic acid	112-80-1	-1.9	7.2	5.9	-1.6	A, B	Oleyl alcohol	143-28-2	-0.3	1.7	4.5	1.3	A, B, F	PolyEthyleneGlycol 600	25322-68-3	-2.7	0.9	1.5	-1.0	F	Solketal	100-79-8	-3.1	1.1	1.1	-0.8	C2	Ricinoleic acid	141-22-0	-2.5	5.3	5.1	-0.8	A, B	$\alpha$ -Terpineol	98-55-5	-0.9	0.9	3.7	0.5	C3	$\beta$ -Terpineol	138-87-4	-1.1	1.7	3.8	0.4	C3	Tetrahydrofurfurylic alcohol	97-99-4	-4.0	1.1	1.5	-0.1	H																																																																																																																							
N,N-Dimethylacetamide	1118-92-9	-0.4	-5.4	1.6	-0.1	C1	Dimethyl 2-methylglutarate	14035-94-0	1.2	-1.0	-1.6	-0.8	C2	Butyl myristate	110-36-1	4.2	-1.6	1.5	2.1	E	1,3-Dioxolan-5-ol	4740-78-7	-5.5	3.5	-0.7	-0.9	A, B	Methyl acetate	77-46-1	-1.7	-1.7	-4.6	-2.3	F	1,3-Dioxolan-4-methanol	5464-28-8	-5.0	2.6	-1.0	-1.0	A, B	Butyl palmitate	111-06-8	4.2	-1.7	1.5	2.1	E	Ethylene glycol	107-21-1	-7.6	5.2	-0.9	2.6	D	Ethyl acetate	88-12-1	-2.1	-1.4	0.3	1.2	A, B, D, E	$\beta$ -Farnesane	18794-84-8	6.9	1.2	0.1	0.9	C7	Ethyl linolenate	1191-41-9	3.8	-1.5	0.9	0.7	D, E	Furfurylic alcohol	98-00-0	-4.5	4.8	1.6	-0.9	D	Ethyl myristate	124-06-1	4.1	-1.6	1.3	1.7	D, E	Glycerol	56-81-5	-7.2	5.4	-0.4	1.8	E, F	Glycerol carbonate	931-40-8	-8.3	7.6	-2.9	0.5	D, E, F	Ethyl palmitate	828-97-7	4.2	-1.5	1.4	2.0	E	Glycerol-1-methyl monoether	623-39-2	-3.9	1.0	-0.1	-0.6	C6	Perfluorooctane	307-34-6	8.2	2.2	0.3	4.4	F	Glycerol-2-methyl monoether	761-06-8	-5.2	2.4	0.3	0.0	C6	$\alpha$ -Pinene	80-56-8	7.9	1.5	0.5	2.6	C3, D, E, F	5-(Hydroxymethyl)furfural	67-47-0	-6.0	4.9	-0.6	-0.7	G	$\beta$ -Pinene	127-91-3	7.1	1.1	0.4	1.3	C3, D, E, F	3-Hydroxypropionic acid	503-66-2	-8.6	7.8	-0.2	0.8	G	Terpinolene	586-62-9	7.4	1.1	0.6	2.0	C3	3-Methoxy-3-methyl-1-butanol	56539-66-3	-5.9	4.9	-0.4	-0.7	D																																																																																																																																												
Methyl 5-(dimethylamino) 2-methyl-oxopentanoate	1174627-68-9	-1.4	-3.6	-1.5	-1.2	C2	Propylene carbonate	108-32-7	-2.6	1.3	-6.0	-1.0	A, B	Butyl stearate	123-95-5	4.5	-1.4	1.5	2.3	E	1,3-Propanediol	504-63-2	-5.7	2.0	1.1	1.1	D, F	Isoamyl alcohol	109-60-4	1.3	-2.2	-0.6	-0.6	D	Propylene glycol	57-55-6	-5.5	3.9	1.3	1.4	A, B, D, F	1,4-Cineol	470-67-7	1.8	-4.3	2.3	1.7	C3	Diethyl succinate	123-25-1	1.4	-1.3	-1.4	-0.9	C2	Acetic acid	64-19-7	-7.2	8.5	2.3	-0.8	G	1,8-Cineol	470-82-6	1.6	-4.5	2.7	2.5	C3	Diethyl glutarate	818-38-2	1.2	-1.6	-1.3	-0.8	C2	Propionic acid	79-09-4	-5.6	8.0	4.1	-1.4	G	Cyclopentyl methyl ether	5614-37-9	1.7	-4.1	1.9	0.9	F	Diethyl adipate	141-28-6	1.1	-2.0	-1.1	-0.8	C2	Water	7732-18-5	-16.7	17.2	-5.3	15.8	A, B, F	Diethyl sebacate	109-43-3	2.3	-3.0	1.1	0.5	A, B	Terpineol acetate	8007-35-0	2.7	-2.5	1.0	0.6	C3	Choline acetate	14586-35-7	-15.8	-3.3	-18.7	-6.7	I	Diethyl adipate	141-04-8	2.2	-2.3	0.3	0.0	C2	Tributyl citrate	77-94-1	1.7	-1.4	-0.1	-0.2	A, B	3-Butyl-1-methylimidazolium tetrafluoroborate	174501-65-6	-6.1	2.6	-7.6	-1.6	F	Diethyl glutarate	1119-40-0	0.2	-1.1	-2.5	-1.2	D, E	Triethyl citrate	77-93-0	0.0	-1.1	-2.0	-1.0	A, B	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E	Decamethylcyclopentasiloxane	541-02-6	4.9	-0.7	0.9	1.8	F	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E	Dipropylene glycol	110-98-5	-5.6	0.7	0.4	1.2	A, B	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E	Ethyl oleate	111-62-6	4.2	-1.5	1.3	1.6	A, B, D, E	N,N-Dimethyldecylamine	14433-76-2	0.1	-5.3	1.9	0.3	C1	Ethyl palmitate	628-97-7	4.2	-1.5	1.4	2.0	E	Diethyl succinate	14491-66-8	3.8	-1.3	0.9	1.1	C4	Isopropyl palmitate	142-91-6	4.2	-1.7	1.4	1.8	A, B, E	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E	d-Limonene	5989-27-5	7.2	1.1	0.3	1.5	D, E, F	Ethyl myristate	124-06-1	4.1	-1.6	1.3	1.7	D, E	Methyl stearate	112-61-8	4.2	-1.4	1.4	2.0	E	Ethyl acetate	88-12-1	-2.1	-1.4	0.3	1.2	A, B, D	Isododecane	31807-55-3	8.3	1.8	0.6	3.6	A, B	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E	$\alpha$ -Pinene	80-56-8	7.9	1.5	0.5	2.6	C3, D, E, F	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E	$\beta$ -Pinene	127-91-3	7.1	1.1	0.4	1.3	C3, D, E, F	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E	Diethyl succinate	106-65-0	-0.3	-0.8	-3.2	-1.3	D, E

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C	Commercial sources, such as Material Safety Data Sheets, congress presentations or private communication with the following producers: Cognis, F DRT, ARD, Roquette, Novance, Amryns.	F	F. M. Kerton, <i>Alternative solvents for green chemistry</i> , RSC Publishing, 2009.				
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C2	Rhodia	C5	Roquette	H	Kottke, R. H. 2000. Furan Derivatives. Kirk-Othmer Encyclopedia of Chemical Technology		
C3	DRT	C6	Novance	I	M. Pełković, J. L. Ferguson, H. Q. N. Gunaratne, R. Ferreira, M. C. Leitao, K. R. Seddon, L. P. N. Rebelo and C. S. Pereira, <i>Green Chem.</i> , 2010, 12, 643.		