

SI Table 1: Density (g/ml) of Sugar-based NADES at Five Different Temperature

NADES	Density at 22°C			Density at 27°C			Density at 40°C			Density at 60°C			Density at 80°C		
	Density	Mean Density	Standard Error	Density	Mean Density	Standard Error	Density	Mean Density	Standard Error	Density	Mean Density	Standard Error	Density	Mean Density	Standard Error
ChCl:Gl:W (5:2:7)	1.2075	1.2070	0.0003	1.2020	1.2034	0.0009	1.1964	1.1972	0.0007	1.1881	1.1884	0.0001	1.1795	1.1796	0.0001
	1.2072			1.2051			1.1986			1.1884			1.1797		
	1.2064			1.2030			1.1967			1.1886			1.1795		
ChCl:Gl:W (5:2:11)	1.2044	1.2044	0.0001	1.2008	1.2012	0.0003	1.1942	1.1949	0.0007	1.1866	1.1861	0.0004	1.1774	1.1775	0.0002
	1.2043			1.2017			1.1962			1.1863			1.1778		
	1.2045			1.2012			1.1942			1.1854			1.1773		
ChCl:Gl:W (5:2:14)	1.2029	1.2025	0.0003	1.2000	1.2000	0.0001	1.1944	1.1939	0.0003	1.1853	1.1851	0.0002	1.1773	1.1776	0.0005
	1.2028			1.1998			1.1933			1.1847			1.1786		
	1.2019			1.2003			1.1940			1.1852			1.1769		
ChCl:Fr:W (5:2:7)	1.1956	1.1952	0.0005	1.1930	1.1929	0.0002	1.1882	1.1876	0.0003	1.1798	1.1801	0.0002	1.1723	1.1725	0.0003
	1.1943			1.1925			1.1875			1.1800			1.1722		
	1.1958			1.1933			1.1870			1.1804			1.1730		
ChCl:Fr:W (5:2:11)	1.1922	1.1932	0.0006	1.1938	1.1911	0.0014	1.1877	1.1864	0.0007	1.1789	1.1787	0.0001	1.1725	1.1708	0.0009
	1.1942			1.1892			1.1855			1.1786			1.1699		
	1.1931			1.1904			1.1859			1.1787			1.1700		
ChCl:Fr:W (5:2:14)	1.1904	1.1909	0.0003	1.1893	1.1887	0.0008	1.1832	1.1835	0.0003	1.1760	1.1760	0.0003	1.1687	1.1685	0.0001
	1.1912			1.1872			1.1833			1.1755			1.1683		
	1.1912			1.1896			1.1840			1.1765			1.1685		
ChCl:Xy:W (5:2:7)	1.1906	1.1896	0.0005	1.1877	1.1874	0.0003	1.1819	1.1816	0.0003	1.1739	1.1732	0.0004	1.1660	1.1653	0.0004
	1.1890			1.1869			1.1819			1.1726			1.1647		
	1.1892			1.1876			1.1809			1.1730			1.1651		
ChCl:Xy:W (5:2:11)	1.1884	1.1885	0.0001	1.1860	1.1857	0.0002	1.1808	1.1800	0.0004	1.1722	1.1714	0.0004	1.1640	1.1636	0.0002
	1.1887			1.1853			1.1798			1.1707			1.1637		
	1.1883			1.1858			1.1794			1.1712			1.1632		
ChCl:Xy:W (5:2:14)	1.1849	1.1854	0.0003	1.1830	1.1829	0.0002	1.1771	1.1772	0.0002	1.1690	1.1686	0.0005	1.1610	1.1612	0.0003
	1.1858			1.1825			1.1775			1.1676			1.1618		
	1.1856			1.1831			1.1769			1.1693			1.1607		
ChCl:Su:W (5:2:7)	1.2668	1.2672	0.0003	1.2653	1.2650	0.0002	1.2588	1.2595	0.0005	1.2521	1.2524	0.0004	1.2431	1.2437	0.0003
	1.2677			1.2649			1.2605			1.2520			1.2443		
	1.2670			1.2647			1.2593			1.2532			1.2437		
ChCl:Su:W (5:2:11)	1.2647	1.2650	0.0002	1.2612	1.2629	0.0009	1.2586	1.2580	0.0003	1.2512	1.2505	0.0004	1.2431	1.2427	0.0002
	1.2649			1.2643			1.2575			1.2504			1.2424		
	1.2654			1.2632			1.2579			1.2499			1.2426		
ChCl:Su:W (5:2:14)	1.2643	1.2624	0.0010	1.2607	1.2606	0.0006	1.2554	1.2558	0.0003	1.2498	1.2482	0.0009	1.2398	1.2400	0.0003
	1.2614			1.2615			1.2557			1.2469			1.2396		
	1.2615			1.2595			1.2564			1.2478			1.2406		

SI Table 2: Viscosity (mPa·s) of Sugar-based NADES at Five Different Temperature

NADES	Viscosity at 22°C			Viscosity at 27°C			Viscosity at 40°C			Viscosity at 60°C			Viscosity at 80°C		
	Viscosity	Mean Viscosity	Standard Error	Viscosity	Mean Viscosity	Standard Error	Viscosity	Mean Viscosity	Standard Error	Viscosity	Mean Viscosity	Standard Error	Viscosity	Mean Viscosity	Standard Error
ChCl:Gl:W (5:2:7)	570.00	569.33	0.33	442.90	443.43	0.74	185.50	184.67	0.44	78.00	78.83	0.83	34.50	34.83	0.33
	569.00			442.50			184.50			78.00			34.50		
	569.00			444.90			184.00			80.50			35.50		
ChCl:Gl:W (5:2:11)	550.00	551.33	1.86	380.00	379.17	0.83	163.50	163.83	0.33	76.00	75.50	0.29	34.00	33.83	0.73
	549.00			380.00			163.50			75.50			35.00		
	555.00			377.50			164.50			75.00			32.50		
ChCl:Gl:W (5:2:14)	464.00	468.33	2.19	325.27	326.01	3.55	155.50	154.17	0.73	73.00	73.50	0.29	32.00	33.17	0.60
	471.00			320.27			153.00			74.00			33.50		
	470.00			332.50			154.00			73.50			34.00		
ChCl:Fr:W (5:2:7)	385.00	386.00	0.58	184.50	185.83	0.88	130.00	129.17	0.44	55.90	55.97	0.29	32.50	32.33	0.17
	386.00			185.50			129.00			56.50			32.00		
	387.00			187.50			128.50			55.50			32.50		
ChCl:Fr:W (5:2:11)	363.00	365.00	1.32	180.00	181.00	0.58	124.00	122.83	0.60	51.10	51.33	0.28	31.00	31.67	0.33
	364.50			181.00			122.50			51.90			32.00		
	367.50			182.00			122.00			51.00			32.00		
ChCl:Fr:W (5:2:14)	340.00	346.50	3.91	174.00	174.50	0.29	117.50	118.50	0.58	51.50	51.00	0.29	31.00	31.17	0.17
	353.50			174.50			118.50			50.50			31.50		
	346.00			175.00			119.50			51.00			31.00		
ChCl:Xy: W (5:2:7)	520.00	521.33	0.67	415.90	417.30	2.41	171.00	172.33	0.67	67.00	65.50	0.76	37.50	37.33	0.17
	522.00			414.00			173.00			64.50			37.50		
	522.00			422.00			173.00			65.00			37.00		
ChCl:Xy: W (5:2:11)	407.00	407.33	3.18	334.00	339.67	3.18	138.50	138.83	0.17	54.50	54.67	0.44	32.00	32.00	0.29
	402.00			340.00			139.00			54.00			31.50		
	413.00			345.00			139.00			55.50			32.50		
ChCl:Xy: W (5:2:14)	356.50	365.17	4.78	273.00	279.63	4.06	95.50	94.67	0.44	45.00	44.33	0.33	29.50	29.33	0.17
	366.00			278.90			94.00			44.00			29.00		
	373.00			287.00			94.50			44.00			29.50		
ChCl:Su:W (5:2:7)	2545.00	2553.33	6.01	1840.00	1851.33	6.36	725.00	726.00	2.08	245.00	241.00	2.02	97.50	96.33	0.60
	2550.00			1852.00			730.00			239.50			96.00		
	2565.00			1862.00			723.00			238.50			95.50		
ChCl:Su:W (5:2:11)	2005.00	2016.67	6.01	1382.00	1385.33	4.37	575.00	575.67	0.33	188.00	188.00	0.00	80.00	79.83	0.17
	2025.00			1380.00			576.00			188.00			79.50		
	2020.00			1394.00			576.00			188.00			80.00		
ChCl:Su:W (5:2:14)	1445.00	1453.00	4.16	1105.00	1109.00	3.06	510.00	512.33	2.33	170.00	173.00	1.53	73.50	73.00	0.29
	1459.00			1115.00			510.00			175.00			72.50		
	1455.00			1107.00			517.00			174.00			73.00		

SI Table 3: Conductivity ($\mu\text{S}/\text{cm}$) of Sugar-based NADES at Different Temperature

NADES	Conductivity at 22°C			Conductivity at 27°C			Conductivity at 40°C			Conductivity at 60°C			Conductivity at 80°C		
	Conductivity	Mean Conductivity	Standard Error	Conductivity	Mean Conductivity	Standard Error	Conductivity	Mean Conductivity	Standard Error	Conductivity	Mean Conductivity	Standard Error	Conductivity	Mean Conductivity	Standard Error
ChCl:Gl:W (5:2:7)	1301 1293 1285	1293.00	4.62	1504 1508 1505	1505.67	1.20	1992 2010 2020	2007.33	8.19	2780 2790 2760	2776.67	8.82	3490 3550 3680	3573.33	56.08
ChCl:Gl:W (5:2:11)	1408 1401 1399	1402.67	2.73	1677 1673 1664	1671.33	3.84	2110 2130 2170	2136.67	17.64	2810 2920 3020	2916.67	60.64	3690 3770 3860	3773.33	49.10
ChCl:Gl:W (5:2:14)	1567 1556 1560	1561.00	3.21	1788 1789 1790	1789.00	0.58	2320 2330 2350	2333.33	8.82	3180 3190 3190	3186.67	3.33	3910 3990 4070	3990.00	46.19
ChCl:Fr:W (5:2:7)	2283 2280 2279	2280.67	1.20	2550 2570 2580	2566.67	8.82	3330 3410 3470	3403.33	40.55	4520 4630 4710	4620.00	55.08	6000 5980 6050	6010.00	20.82
ChCl:Fr:W (5:2:11)	2510 2520 2493	2507.67	7.88	2820 2840 2770	2810.00	20.82	3700 3760 3830	3763.33	37.56	4740 4800 5130	4890.00	121.24	6200 6220 6230	6216.67	8.82
ChCl:Fr:W (5:2:14)	2810 2790 2780	2793.33	8.82	3150 3130 3120	3133.33	8.82	4080 4080 4100	4086.67	6.67	5203 5213 5203	5206.33	3.33	6460 6470 6490	6473.33	8.82
ChCl:Xy:W (5:2:7)	2404 2391 2382	2392.33	6.39	2790 2770 2760	2773.33	8.82	3500 3590 3630	3573.33	38.44	4800 4910 5130	4946.67	97.01	6160 6230 6300	6230.00	40.41
ChCl:Xy:W (5:2:11)	2768 2764 2761	2764.33	2.03	3190 3200 3190	3193.33	3.33	4150 4200 4210	4186.67	18.56	5750 5790 5810	5783.33	17.64	7083 7123 7143	7116.33	17.64
ChCl:Xy:W (5:2:14)	3150 3160 3170	3160.00	5.77	3630 3620 3610	3620.00	5.77	4820 4810 4800	4810.00	5.77	6320 6400 6480	6400.00	46.19	8050 8040 8090	8060.00	15.28
ChCl:Su:W (5:2:7)	607 598 596	600.33	3.38	773 761 762	765.33	3.84	1125 1136 1153	1138.00	8.14	1578 1591 1591	1586.67	4.33	2010 2020 2030	2020.00	5.77
ChCl:Su:W (5:2:11)	769 758 750	759.00	5.51	953 957 948	952.67	2.60	1358 1332 1329	1339.67	9.21	1756 1773 1786	1771.67	8.69	2180 2200 2222	2200.67	12.13
ChCl:Su:W (5:2:14)	960 939 915	938.00	13.00	1113 1091 1103	1102.33	6.36	1385 1415 1423	1407.67	11.57	1812 1825 1842	1826.33	8.69	2280 2290 2260	2276.67	8.82

SI Table 4: pH of Sugar-based NADES at Five Different Temperature

NADES	pH at 22°C			pH at 27°C			pH at 40°C			pH at 60°C			pH at 80°C		
	pH	Mean pH	Standard Error		Mean pH	Standard Error	pH	Mean pH	Standard Error	pH	Mean pH	Standard Error	pH	Mean pH	Standard Error
ChCl:Gl:W (5:2:7)	4.79			4.73			4.63			4.84			4.38		
	4.79	4.79	0.0033	4.72	4.72	0.0088	4.64	4.64	0.0058	4.81	4.81	0.0145	4.37	4.39	0.0120
	4.80			4.70			4.65			4.79			4.41		
ChCl:Gl:W (5:2:11)	4.86			4.50			4.65			4.75			4.59		
	4.86	4.86	0.0033	4.49	4.49	0.0033	4.74	4.71	0.0300	4.76	4.76	0.0033	4.57	4.58	0.0067
	4.87			4.49			4.74			4.76			4.57		
ChCl:Gl:W (5:2:14)	4.89			4.81			4.90			4.97			4.73		
	4.91	4.91	0.0088	4.80	4.80	0.0058	4.90	4.90	0.0033	4.93	4.94	0.0153	4.71	4.71	0.0088
	4.92			4.79			4.89			4.92			4.70		
ChCl:Fr:W (5:2:7)	3.62			4.26			4.27			3.27			3.42		
	3.60	3.60	0.0115	4.25	4.25	0.0033	4.26	4.26	0.0033	3.29	3.28	0.0058	3.41	3.41	0.0033
	3.58			4.25			4.26			3.28			3.41		
ChCl:Fr:W (5:2:11)	3.37			4.15			3.69			3.06			3.25		
	3.35	3.35	0.0088	4.12	4.12	0.0203	3.71	3.71	0.0145	3.05	3.05	0.0058	3.24	3.24	0.0033
	3.34			4.08			3.74			3.04			3.24		
ChCl:Fr:W (5:2:14)	3.70			4.26			4.18			3.56			3.59		
	3.69	3.69	0.0058	4.25	4.26	0.0033	4.17	4.18	0.0033	3.56	3.56	0.0033	3.59	3.59	0.0033
	3.68			4.26			4.18			3.57			3.58		
ChCl:Xy:W (5:2:7)	4.62			4.62			4.50			4.52			4.43		
	4.62	4.61	0.0067	4.62	4.62	0.0000	4.49	4.49	0.0033	4.50	4.49	0.0176	4.43	4.43	0.0000
	4.60			4.62			4.49			4.46			4.43		
ChCl:Xy:W (5:2:11)	4.75			4.51			4.74			4.51			4.18		
	4.73	4.73	0.0088	4.50	4.50	0.0033	4.73	4.73	0.0088	4.51	4.51	0.0033	4.17	4.18	0.0033
	4.72			4.50			4.71			4.50			4.18		
ChCl:Xy:W (5:2:14)	4.78			4.75			4.57			4.65			4.45		
	4.77	4.77	0.0058	4.73	4.72	0.0176	4.57	4.57	0.0000	4.64	4.64	0.0058	4.44	4.44	0.0033
	4.76			4.69			4.57			4.63			4.44		
ChCl:Su:W (5:2:7)	4.59			4.56			4.61			4.32			4.50		
	4.57	4.57	0.0115	4.53	4.54	0.0100	4.57	4.58	0.0176	4.31	4.30	0.0123	4.53	4.52	0.0100
	4.55			4.53			4.55			4.28			4.53		
ChCl:Su:W (5:2:11)	4.22			4.34			4.55			4.52			4.16		
	4.21	4.21	0.0058	4.31	4.31	0.0145	4.56	4.56	0.0058	4.50	4.49	0.0176	4.13	4.14	0.0120
	4.20			4.29			4.57			4.46			4.12		
ChCl:Su:W (5:2:14)	4.53			4.61			4.45			4.47			4.24		
	4.52	4.52	0.0058	4.60	4.60	0.0088	4.49	4.47	0.0120	4.46	4.46	0.0033	4.22	4.23	0.0058
	4.51			4.58			4.46			4.46			4.23		