

Little evidence for dynamic divergences in ultraviscous molecular liquids – Supplementary Information

By: Hecksher et al., [NPHYS-2008-02-00228]

A list of the liquids included in the analysis is given here. For each liquid is provided: Name, abbreviation, symbol used in the figures, temperature interval for which relaxation time data (i.e., dielectric loss peak data) are available, frequency interval for the dielectric loss measurements determining the relaxation times, temperature index interval, and reference. The term “this work” refers to new data obtained by the experimental set-up detailed in Refs. 21 and 22.

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Liquid	Abr.	Symbol	Temp.int (K)	Freq.int.(log ₁₀ ν)	Index int.	Reference
1,2-propandiol (propylene-glycol)	PG	◀	180 ; 211	0.34 ; 4.51	1.08 ; 1.49	¹
2-ethyl-hexylamine	EH	◦	142 ; 166	−1.4 ; 4.72	1.45 ; 3.08	²
2-methyl-tetrahydrofurane	MTHF	◻	91 ; 108	−2.1 ; 5.92	2.14 ; 3.89	¹
2-phenyl-5-acetomethyl-5-ethyl-1,3-dioxocyclohexane	AFEH	▽	220 ; 240	−1.75 ; 2.91	2.65 ; 3.27	¹
3,3,4,4-benzophenonetetracarboxylic dianhydride	BPC	◊	334 ; 362	−1.79 ; 3.11	3.36 ; 3.73	³
3-fluoro-aniline	FAN	▷	173 ; 198	−2.11 ; 5.36	3.52 ; 3.79	⁴
3-phenyl-1-propanol	3Ph1P	×	180 ; 200	−1.89 ; 2.38	1.84 ; 2.57	this work
3-styrene	3Sty	+	235 ; 280	−1.61 ; 5.44	2.06 ; 3.1	⁵
5-polyphenyl-ether	5-PPE	△	248 ; 264	−1.9 ; 2.32	3.77 ; 4.07	⁶
benzophenone	BePh	*	215 ; 240	0.16 ; 5.7	3.56 ; 3.91	⁷
biphenyl-2-yl-isobutylate	BP2IB	◁	210 ; 232	−1.38 ; 3.94	3.14 ; 3.37	¹
butyronitrile	BN	◉	97 ; 116	−1.85 ; 3.66	0.83 ; 1.91	⁸
cresolphthalein-dimethylether	KDE	◻	315 ; 383	−2.64 ; 5.98	2.08 ; 3.14	⁹
decahydroisoquinoline	DHIQ	▽	180 ; 192	−1.89 ; 3.78	3.83 ; 7.27	⁶
di-iso-butyl-phtalate	dIBP	◊	195 ; 221	−1.44 ; 4.02	1.72 ; 3.08	¹
dibutyl-ammonium-formide	dBAF	▷	156 ; 200	−1.57 ; 5.63	0.91 ; 2.73	¹⁰
dibutyl-phtalate	DBP	×	180 ; 224	−1.67 ; 5.93	1.05 ; 3.18	¹¹
dicyclohexyl-methyl-2-methylsuccinate	DCHMMS	+	220 ; 240	−2.13 ; 2.85	2.93 ; 3.54	¹²
diethyl-phtalate	DEP	△	186 ; 222	−1.51 ; 5.81	2.09 ; 3.24	this work
diglycidyl-ether-of-bisphenol A (epoxy-resin)	ER	*	259 ; 291	−0.83 ; 5.94	2.79 ; 5.64	¹³
dimethyl-phtalate	DMP	◁	196 ; 220	−1.65 ; 3.87	2.48 ; 3.14	this work
dioctyl-phtalate	DOP	◉	188 ; 220	−1.81 ; 3.9	1.33 ; 2.56	¹
dipropylene-glycol	DPG	◻	196 ; 240	−2.39 ; 5.13	1.34 ; 2.81	this work
dipropylene-glycol-dimethyl-ether	DPGDME	▽	139 ; 155	−1.11 ; 4.12	2.26 ; 3.38	¹

ther						
glycerol	Gly	◇	192 ; 252	−1.89 ; 5.85	1.1 ; 1.92	¹¹
isopropyl-benzene	Cum	▷	130 ; 149	−1.86 ; 4.73	2.52 ; 3.68	¹
m-tricresyl-phosphate	mTCP	×	209 ; 233	−1.58 ; 3.49	2.22 ; 3.11	¹⁴
m-toluene	mTol	+	184 ; 200	−2.77 ; 2.76	3.55 ; 4	this work
o-terphenyl	OTP	△	252 ; 282	−0.24 ; 5.71	2.94 ; 4.3	¹⁵
perhydroisoquinoline	PHIQ	*	182 ; 206	−1.38 ; 5.96	2.57 ; 7.2	¹⁶
phenolphthalein-dimethylether	PDE	◁	299 ; 333	−1.47 ; 4.51	2.94 ; 3.81	¹⁷
phenyl-salicylate (salol)	Sal	○	223 ; 253	−1.38 ; 5.6	3.63 ; 4.04	¹⁸
polypropylene-glycol	PPG	□	200 ; 240	−1.51 ; 5.46	1.48 ; 3.36	¹¹
pyridine-toluene	PT	▽	125 ; 131	−2.85 ; 1.63	5.13 ; 6.16	¹¹
squalane	Sqa	◇	170 ; 210	−1.92 ; 5.05	0.36 ; 3.42	⁶
sucrose-benzonate	SB	▷	341 ; 400	−1.14 ; 5.54	1.5 ; 4.09	¹⁹
tetraphenyl-tetramethyl-trisi	DC704	×	211 ; 240	−2.62 ; 5	3.73 ; 4.06	⁶
loxane						
tricresyl-phosphate	TCP	+	216 ; 248	−0.69 ; 4.95	1.9 ; 3.06	this work
triphenyl-ethylene	TPE	△	254 ; 274	−1.47 ; 3.13	3.49 ; 3.91	⁶
tripropylene-glycol	TPG	*	192 ; 228	−2.01 ; 4.78	1.44 ; 3.21	¹¹
trisnaphthylbenzene	tNB	◁	357 ; 405	0.09 ; 5.86	2.7 ; 3.49	²⁰
xylitol	Xyl	○	254 ; 284	−0.59 ; 4.66	2.27 ; 3.99	¹