



Figure 1. Calculated density with error bar (estimated error) plotted against the theoretical density and $x=y$ line (dashed blue).

Table 1. Comparison between experimental density [1] and calculated density with corresponding estimated errors, deviation, and square deviation.

SOLVENT	EXPERIMENTAL	CALCULATED	EST. ERR.	(CALC - EXP)	(CALC - EXP) ²
TOL	0.862	0.865	0.000	0.003	0.0000
ClPh	1.101	1.106	0.000	0.005	0.0000
Ph	0.869	0.879	0.001	0.010	0.0001
EtOH	0.785	0.766	0.001	0.019	0.0004
nHex	0.655	0.635	0.000	0.020	0.0004
ACN	0.776	0.751	0.000	0.025	0.0006
DMSO	1.096	1.070	0.000	0.026	0.0007
CHCl ₃	1.479	1.507	0.001	0.028	0.0008
Ac	0.785	0.814	0.000	0.029	0.0008
cHex	0.774	0.744	0.000	0.030	0.0009
C ₂ Cl ₄	1.615	1.651	0.000	0.036	0.0013
THF	0.884	0.847	0.000	0.037	0.0013
MeOH	0.787	0.748	0.000	0.039	0.0015
CS ₂	1.253	1.335	0.001	0.082	0.0067
CCl ₄	1.584	1.672	0.001	0.088	0.0077
DCM	1.394	1.266	0.001	0.128	0.0165