

Example b:

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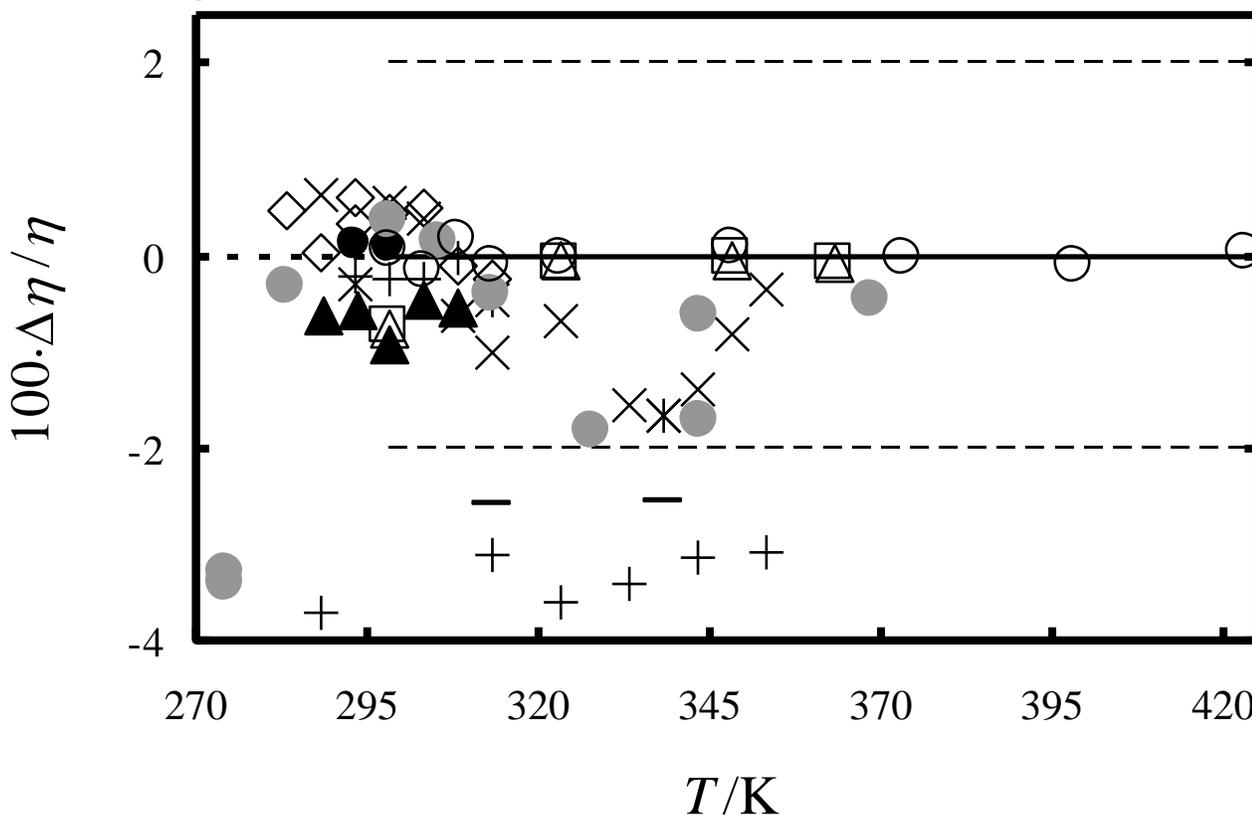


Figure 5. Relative differences $\Delta\eta/\eta = \{\eta(\text{expt}) - \eta(\text{calc})\}/\eta(\text{calc})$ of the experimental viscosity $\eta(\text{expt})$ at $p = 0.1$ MPa for different impurities and water mass fraction w , from the value obtained from eq 4 $\eta(\text{calc})$ as a function of temperature T . \triangle , This work, sample A with $w(\text{H}_2\text{O}) = 20 \cdot 10^{-6}$; \circ , this work sample B with $w(\text{H}_2\text{O}) = 417 \cdot 10^{-6}$; \square , this work sample C with $w(\text{H}_2\text{O}) = 29 \cdot 10^{-6}$; \blacktriangle , Caetano *et al.*⁴ with purity of 0.995 and $w(\text{H}_2\text{O}) = 20 \cdot 10^{-6}$; \diamond , Caetano *et al.*¹⁰ with purity of 0.998 with $w(\text{H}_2\text{O}) = 20 \cdot 10^{-6}$; \bullet , Caetano *et al.*¹⁷ with purity of 0.998 and $w(\text{H}_2\text{O}) = 107 \cdot 10^{-6}$; $+$, Harris and Bair¹¹ sample purity 0.99 and unspecified $w(\text{H}_2\text{O})$ obtained with Canberra viscometer; \times , Harris and Bair¹¹ sample of purity 0.998 and unspecified $w(\text{H}_2\text{O})$ obtained with Canberra viscometer; $*$, Harris and Bair¹¹ sample of purity 0.998 and unspecified $w(\text{H}_2\text{O})$ obtained with Atlanta alpha viscometer; $-$, Harris and Bair¹¹ obtained from ABCR GmbH sample and unspecified $w(\text{H}_2\text{O})$ obtained with Atlanta alpha viscometer; and \bullet , Peleties and Trusler¹⁸ sample purity 0.998. The dashed line at ± 2 are the expanded uncertainties in our measurements while that at 0 indicates an extrapolation of eq 4 to temperatures below our measurements to which the parameters of eq 4 were adjusted.