## Example e:

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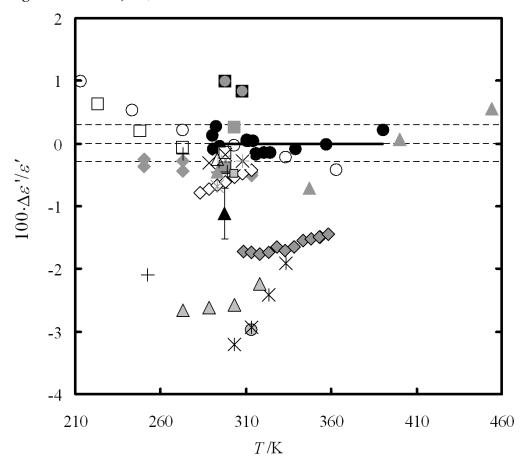


Figure 8. Deviations  $\Delta \varepsilon' = \varepsilon'(\text{expt}) - \varepsilon'(\text{calc})$  of the measured relative electric permittivity  $\varepsilon'(\text{expt})$  of methylbenzene as deviations from the calculated values  $\varepsilon'(\text{calc})$  of eq 9 at p = 0.1 MPa. At  $T \ge 383.75$  K, the normal boiling temperature, measurements were performed at  $p > p^{\lg}$  where  $p^{\lg}$  is the vapor pressure.  $\triangle$ , ref 13;  $\triangle$ , ref 14; gray  $\cos \times$ , ref 15;  $\diamondsuit$ , ref 16;  $\triangle$ , ref 17;  $\bigcirc$ , ref 18; +, ref 19;  $\blacksquare$ , ref 20; light gray filled square with black outline, ref 21;  $\square$ , ref 22; gray asterisk, ref 23; gray plus +, ref 24; \*, refs 25 and 27;  $\times$ , ref 26; dark gray filled square with black outline, ref 28;  $\diamondsuit$ , ref 29;  $\diamondsuit$ , ref 30;  $\bigcirc$ , ref 31;  $\blacksquare$ , ref 32;  $\bigcirc$ , ref 33;  $\triangle$ , MEMS obtained by extrapolation of the results listed in Table 2 with a quadratic function of pressure to p = 0.1 MPa. The recommendations of Maryott and Smith<sup>34</sup> are not shown in Figure 1 because they are coincident with the values reported by Tangl. The dashed lines at  $\pm 0.3$  are  $100 \cdot \sigma(<\varepsilon'>)/\varepsilon' = \pm 0.29$  where  $\sigma$  is the standard deviation of the fit to eq 9 while that at 0 indicates an extrapolation of eq 9.