Inverse Static Dielectric Constant 1.0 **SMIRNOFF** Corrected SMIRNOFF:  $R^2$ : 0.899 [ 0.857, 0.926] ME: 0.086 [0.069, 0.103] kcal/mol 8.0 RMSE: 0.161 [ 0.135, 0.185] kcal/mol Corrected:  $R^2$ : 0.908 [ 0.871, 0.933] Experiment (ThermoML) ME: 0.033 [0.027, 0.039] kcal/mol RMSE: 0.056 [ 0.051, 0.061] kcal/mol 0.6 0.4 0.2 0.0 0.0 0.2 0.4 0.6 0.8 1.0 Predicted (SMIRNOFF)