Inverse Static Dielectric Constant 1.0 **SMIRNOFF** Corrected SMIRNOFF:  $R^2$ : 0.961 [ 0.944, 0.972] ME: 0.098 [0.082, 0.115] kcal/mol 8.0 RMSE: 0.164 [ 0.138, 0.187] kcal/mol Corrected:  $R^2$ : 0.966 [ 0.951, 0.976] Experiment (ThermoML) ME: 0.042 [0.037, 0.046] kcal/mol RMSE: 0.054 [ 0.048, 0.059] kcal/mol 0.6 0.4 0.2 0.0 0.0 0.2 0.4 0.6 0.8 1.0 Predicted (SMIRNOFF)