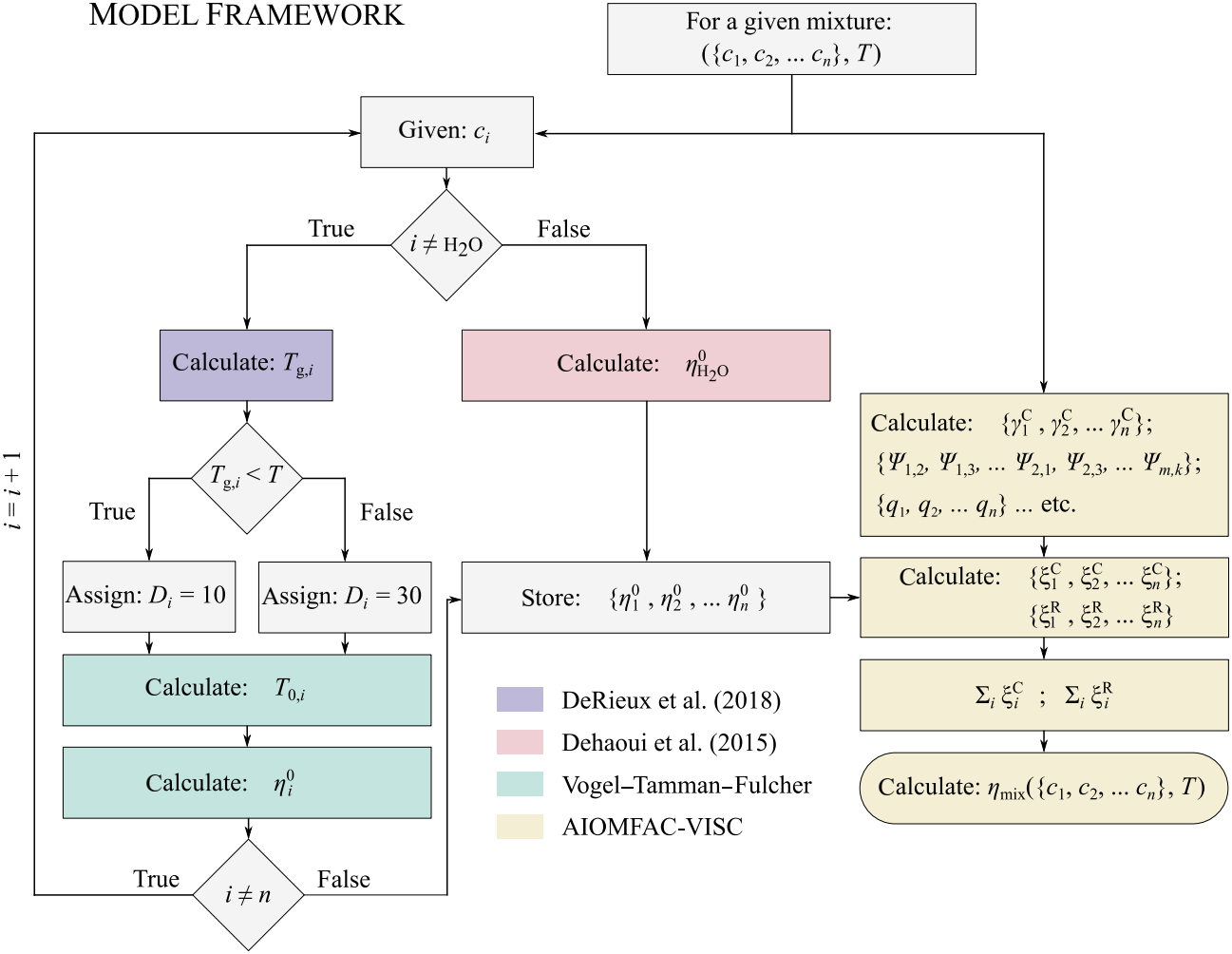MODEL FRAMEWORK