

## E.2. Volume Validation Plots

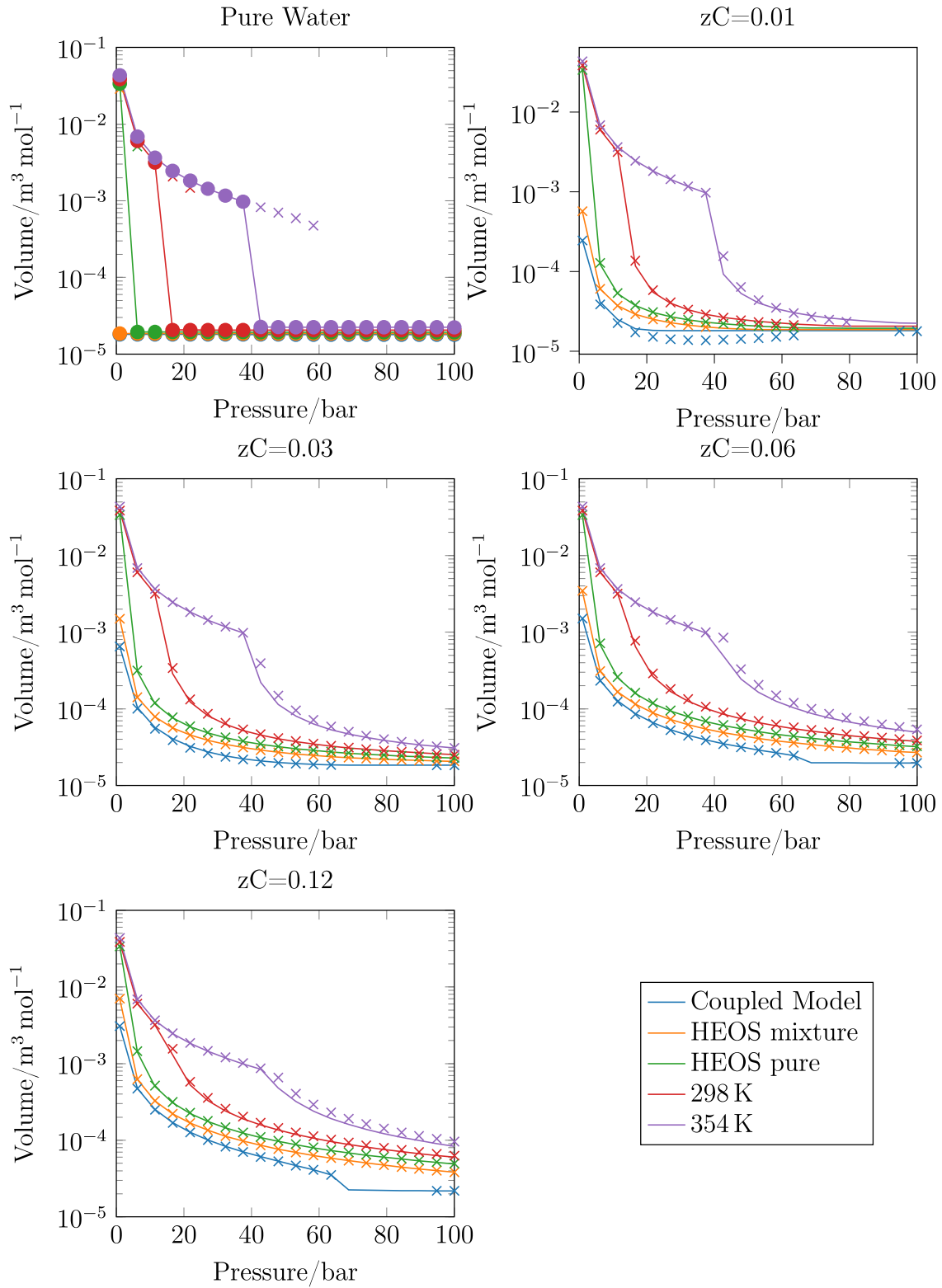


Figure E.4: The molar volume, as a function of temperature, pressure and composition, as calculated using the HEOS mixture in *CoolProp* and the coupled model - part 1

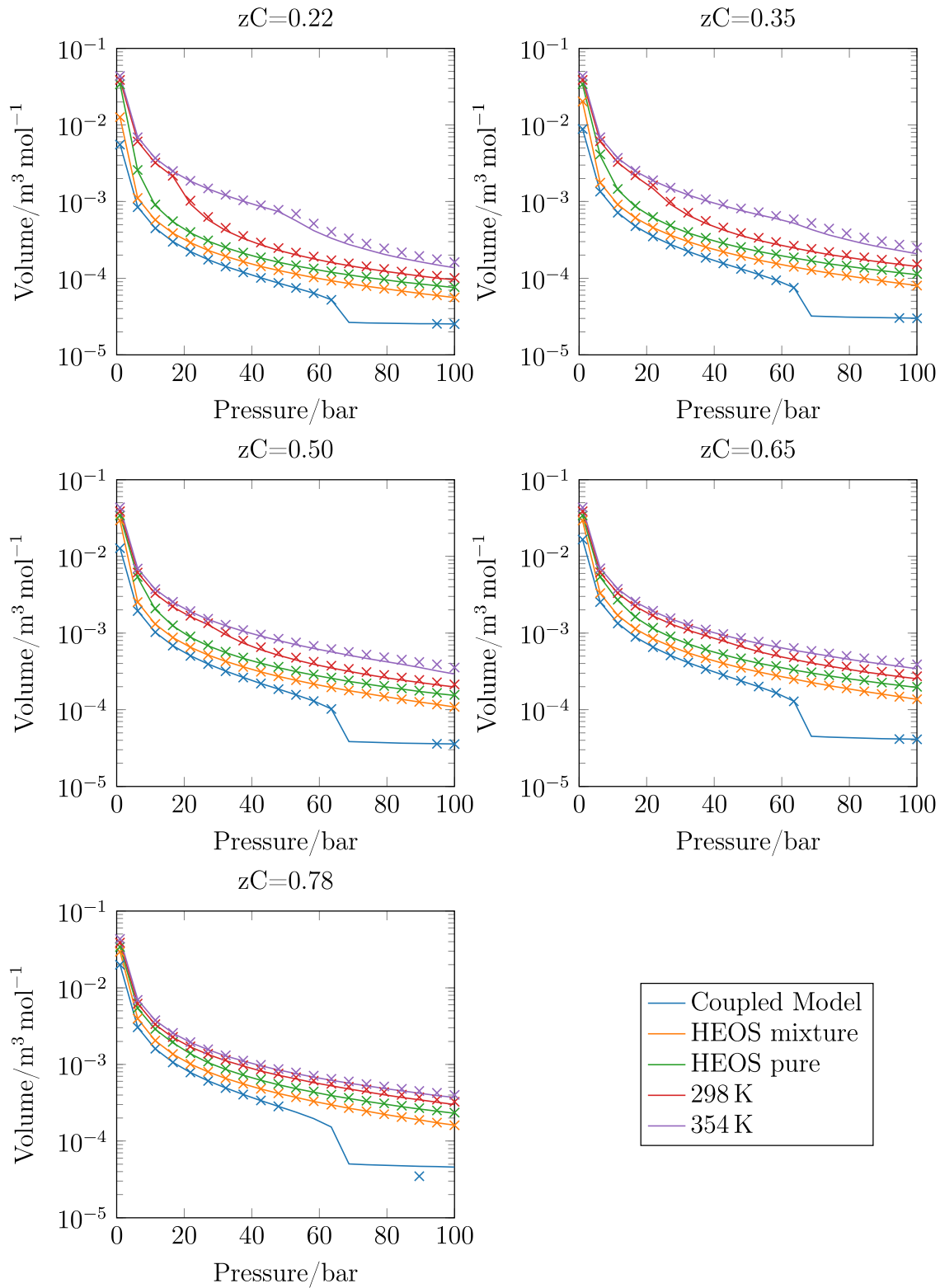


Figure E.5: The molar volume, as a function of temperature, pressure and composition, as calculated using the HEOS mixture in *CoolProp* and the coupled model - part 2

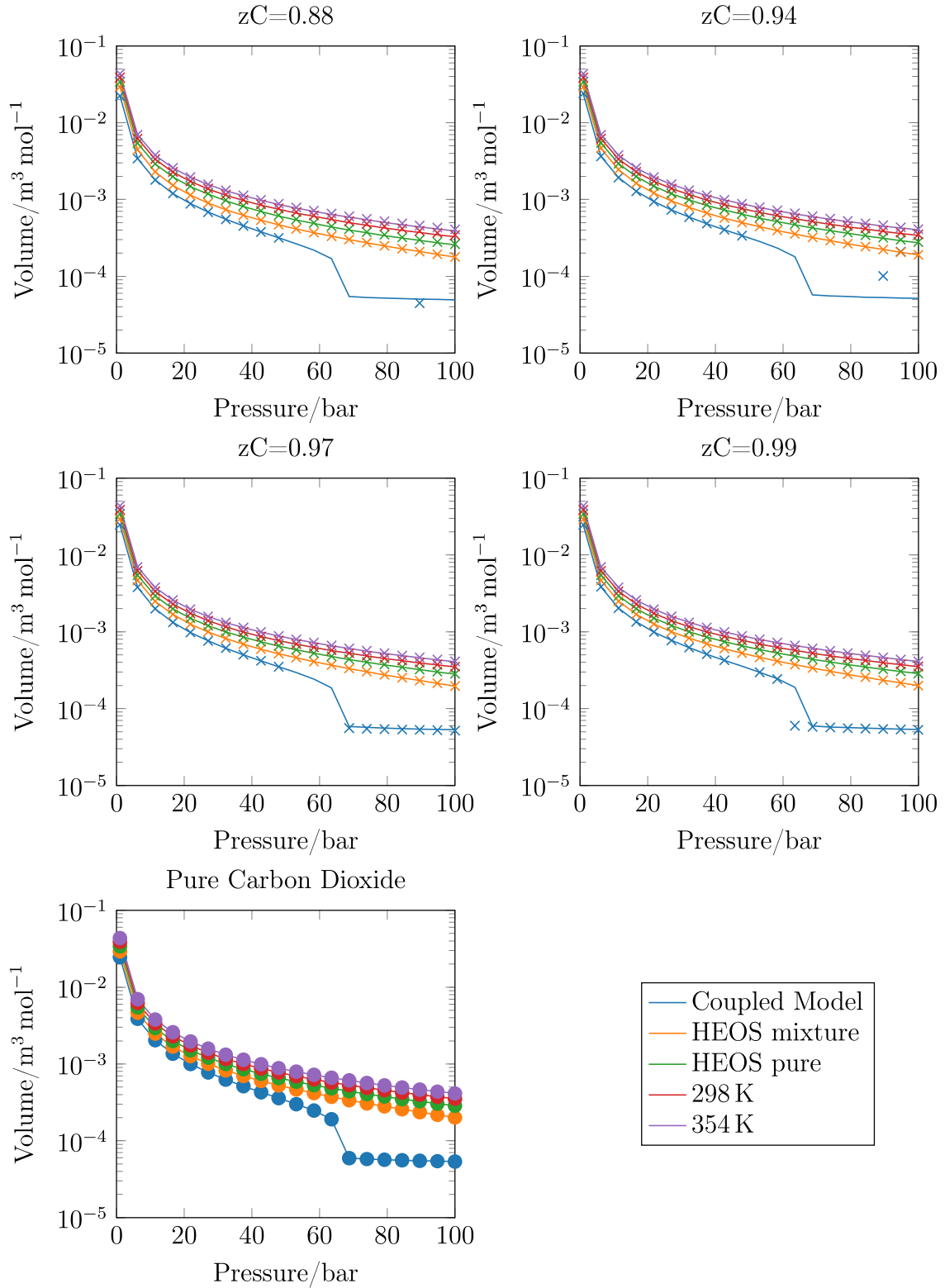


Figure E.6: The molar volume, as a function of temperature, pressure and composition, as calculated using the HEOS mixture in *CoolProp* and the coupled model - part 3