Barbara Perez Mauto Pchem 03/30/20 Redding HN#7

7.1 Real Gases and Ideal Gases

iokal gas equation of state can be sufficiently accurate for P-V-T relationships of real gases at low densities and high temps this works at higher densities and low temps molecular interactions cannot be regrected.

PV=hRT

Ideal Gas Law

- P-V relationship For water rend P+V within ±10%.

 Only For T>1300K
 - 7.2 Equations of State for Real Gases and Their Ronge of Applicability
 - Several equations of stak for real gases and reach of variables pivial Tover which they accurally describe a trail gas are discussed. Must exhibit power behavior blankeal for that of ideal gas as I aw density. I have deviations similar than real gases exhibited moderate they here densities
 - · Van der Waals equation of stale:

 P= Vm-b V2m = V-nb V2

 Redlich-Kwing equation of stale:

 P= RF a Vm(Vm+b) = V-nb F V(V+r)

* values a ma b oliff the oliff gases