# Gas Laws: Real Gases

# Virial equation of state

- Virial equation of state for precise description of gas.




- Temperature dependent coefficients

# Virial equation of state

- Virial equation of state expressed as a function of pressure or $(1/\overline{V})$.

# Virial equation of state

- Virial equation of state expressed as a function of pressure or $(1/\overline{V})$.

# Boyle Temperature

- Find temperature where gas behaves closest to ideal

- Boyle Temperature

# Boyle Temperature

- Find temperature where gas behaves closest to ideal

# van der Waals

- Find $T_{Boyle}$ for van der Waals.