# Ideal Gas Law

# Redlich-Kwong

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# Equations from “Thermodynamic properties in SI: Graphs, tables, and computational equations for forty substances”

<http://www.amazon.com/Thermodynamic-properties-computational-equations-substances/dp/0917606051>

## P-v-T Equations

(P-1)

(P-2)

(P-3)

(P-4)

(P-5)

(P-6)

Equation (P-6) is used in conjunction with the following *Q* equations:

(Q-1)

(Q-2)

(P-7)

(P-8)

*Note: This is the Redlich-Kwong equation*

(P-9)

(P-10)

(P-11)

## Equations

(c-0)

(c-1)

(c-2)

(c-3)

(c-4)

(c-5)

(c-6)

(c-7)

## Saturation Pressure Equations

(S-1)

(S-2)

(S-3)

(S-4)

(S-5)

(S-6)

(S-7)

(S-8)

(S-9)

(S-10)

(S-11)

## Saturated Liquid Density Equations

(D-1)

(D-2)

(D-3)

(D-4)

(D-5)

(D-6)

(D-7)

(D-8)