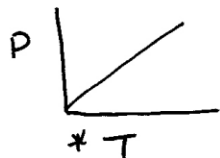


Gay/Lussacs Law

Relates Pressure and *temp (K) keeping volume and amount (n) constant

Direct $\uparrow P, \uparrow T^*$

Graph



* Temp must be in Kelvin

Formula

$$\frac{P_1}{T_1} = \frac{P_2}{T_2}$$

$\uparrow$
use if missing P_2

or
$$\frac{T_1}{P_1} = \frac{T_2}{P_2}$$

$\uparrow$
use if missing T_2

Combined Law

Relates $P, V + T$ Keeping amount (n) constant. Temp in Kelvin

Formula

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

or
$$\frac{T_1}{P_1 V_1} = \frac{T_2}{P_2 V_2}$$

$\rightarrow$ use if missing T_2