Relations de Helmholtz

$1^{\text{ère}}$ relation de Helmholtz :

$$\boxed{\frac{\mathrm{d}\Delta_r G^{\circ}}{\mathrm{d}T} = -\Delta_r S^{\circ}}$$

$2^{\text{ème}}$ relation de Helmholtz :

$$\boxed{\frac{\mathrm{d}}{\mathrm{d}T}\left(\frac{\Delta_r G^{\circ}}{T}\right) = -\frac{\Delta_r H^{\circ}}{T^2}}$$