$$(8.36) \Rightarrow \quad S = \frac{k}{\mu}\left\{ \frac{1}{\gamma-1} + \frac{1}{\gamma-1}\log\theta - \log\alpha - \log\rho \right\}$$

$$= \text{cost.} + \frac{k}{\mu(\gamma-1)}\ln\theta - \frac{k}{\mu}\ln\rho$$

da (8.35) $\theta = \frac{m}{k}\frac{p}{\rho} \Rightarrow \log\theta = \log\frac{m}{k} + \log p - \log\rho$

$$S = \text{cost.} + \frac{k}{\mu(\gamma-1)}\left[\log\frac{m}{k} + \log p - \log\rho\right] - \frac{k}{\mu}\ln\rho$$

$$= S_0 + c_v \log p + \frac{k}{\mu(\gamma-1)}\left(-\cancel{1} - (\gamma-\cancel{1})\right)\ln\rho$$

$$= S_0 + c_v \log p - c_v\gamma\ln\rho =$$

$$\boxed{S = S_0 + c_v \log\left(\frac{p}{\rho^\gamma}\right) \quad !} \qquad (8.37)_2$$

dove $\quad c_v = \frac{k}{\mu(\gamma-1)}$

$$\left(\frac{k}{\mu} = c_p - c_v \qquad \gamma = \frac{c_p}{c_v} \Rightarrow c_p = \gamma c_v \qquad \frac{k}{\mu} = (\gamma-1)c_v \right)$$