2.10 Entropy

The specific entropy of seawater $\eta$ is given by

$$\eta = \eta(S_h, t, p) = -g_T = -\partial g/\partial T|_{S_h, p}.$$  

(2.10.1)

When taking derivatives with respect to in situ temperature, the symbol $T$ will be used for temperature in order that these derivatives not be confused with time derivatives.

Entropy $\eta$ has units of $J \text{kg}^{-1} \text{K}^{-1}$ in both the SIA and GSW computer libraries.