

2.12 Enthalpy

The specific enthalpy of seawater h is given by

$$h = h(S_A, t, p) = g + (T_0 + t)\eta = g - (T_0 + t) \left. \frac{\partial g}{\partial T} \right|_{S_A, p}. \quad (2.12.1)$$

Specific enthalpy h has units of J kg^{-1} in both the SIA and GSW software libraries. Also, note that potential enthalpy is defined in section 3.2 below, and dynamic enthalpy is defined as enthalpy minus potential enthalpy (Young, 2010).