Notes on the GSW function gsw_SA_from_rho(rho, t, p)

This function, gsw_SA_from_rho calculates (using a modified Newton-Raphson iteration procedure) the Absolute Salinity S_A corresponding to the input values of in situ density, in situ temperature and pressure. Note that the density input is not density anomaly, that is, it has not had 1000 kg m^{-3} subtracted from it. One use for this function is in the laboratory where a measured value of the in situ density ρ of a seawater sample may have been made at the laboratory temperature t and at atmospheric pressure p. The present function will return the Absolute Salinity S_A of this seawater sample.