Notes on the function gsw_specvol_anom_standard_CT_exact(SA,CT,p)

This function, **gsw_specvol_anom_standard_CT_exact**(SA,CT,p), evaluates the specific volume anomaly $\hat{\delta} = \hat{v}(S_A,\Theta,p) - \hat{v}(S_{SO},0^{\circ}C,p)$ for given input values of Absolute Salinity S_A , Conservative Temperature Θ , and pressure p. The Standard Ocean Reference Salinity, S_{SO} , is 35.165 04 g kg⁻¹. This function uses the full TEOS-10 Gibbs function $g(S_A,t,p)$ of IOC *et al.* (2010), being the sum of the IAPWS-09 and IAPWS-08 Gibbs functions.

This function is simply two calls to other GSW functions, as follows,

<u>References</u>

- IAPWS, 2008: Release on the IAPWS Formulation 2008 for the Thermodynamic Properties of Seawater. The International Association for the Properties of Water and Steam. Berlin, Germany, September 2008, available from www.iapws.org. This Release is referred to in the text as IAPWS-08.
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- IOC, SCOR and IAPSO, 2010: The international thermodynamic equation of seawater 2010: Calculation and use of thermodynamic properties. Intergovernmental Oceanographic Commission, Manuals and Guides No. 56, UNESCO (English), 196 pp. Available from http://www.TEOS-10.org