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

This function, $gsw_specvol_CT_exact(SA,CT,p)$, evaluates the specific volume v for given input values of Absolute Salinity S_A , Conservative Temperature Θ , and pressure p. 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,

```
t = gsw_t_from_CT(SA,CT,p);
specvol_CT_exact = gsw_specvol_t_exact(SA,t,p);
```

References

- 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.
- IAPWS, 2009: Supplementary Release on a Computationally Efficient Thermodynamic Formulation for Liquid Water for Oceanographic Use. The International Association for the Properties of Water and Steam. Doorwerth, The Netherlands, September 2009, available from http://www.iapws.org. This Release is referred to in the text as IAPWS-09.
- 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