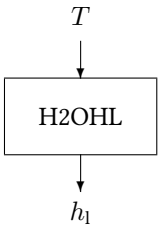
Block H2OHL

The H2OHL block calculates the enthalypy of water as a function of temperature.





Name	H2OHL
Function	st0010
Inputs	1
Outputs	1
Parameters	0
Strings	0
Group	S

Inputs

1 Temperature T / °C

Outputs

1 Enthaply of water h_l / kJ kg^{-1}

Parameters

None

Strings

None

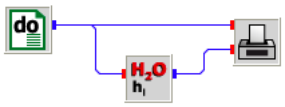
Description

The enthalpy of liquid water h_l is calculated after the empirical correlation

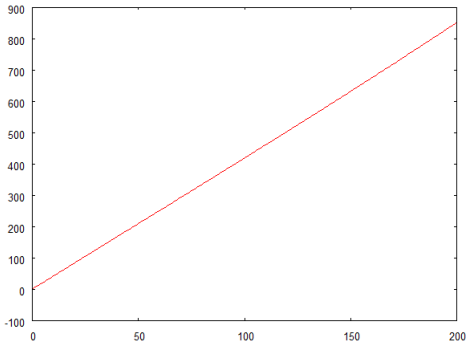
$$h_l = -\ 0.0225 + 4.2063437\ T - 6.014696 \cdot 10^{-4}\ T^2 + 4.381537 \cdot 10^{-6}\ T^3$$

The correlation is accurate within ± 0.04 % for a temperature range between 0 °C and 200 °C.

h2ohl.vseit



The PLOT block displays the enthalpy of liquid water as a function of temperature which is varied between 0 and 200 °C in steps of 1 °C, as defined through a DO block.



See also

Blocks H2OHE and H2OHV.