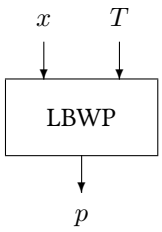
Block LBWP

The LBWP block returns the pressure of a lithium-bromide-water dilution as a function of concentration and temperature.

LiBr
p



Model

Name	LBWP
Function	st0025
Inputs	2
Outputs	1
Parameters	2
Strings	0
Group	S

Inputs

1 Lithium-bromide concentration x in / kg LiBr kg^{-1} H_2O
2 Temperature T / °C

Outputs

1 Pressure of lithium-bromide-water dilution p / Pa

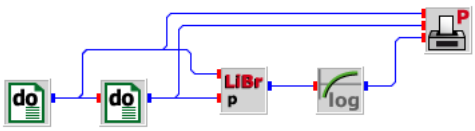
Parameters

1 Model
0 Mc Neely 1979
2 Outside-range value. If set to zero ($|\mathrm{PARAMS}(2)| < 10^{-5}$) data are extrapolated.

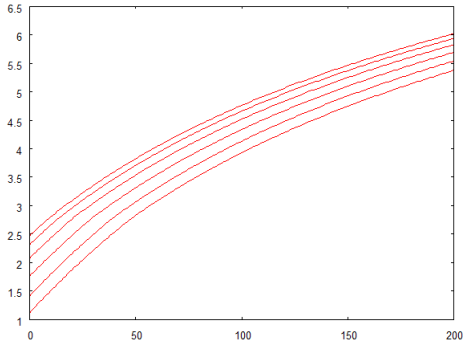
Strings

None

lbwp.vseit



The pressure of lithium-bromide-water dilution is calculated and plotted by a PLOTP block as a function of concentration and temperature.



The concentration and temperature are varied by two nested DO blocks between 0 and 200 °C in steps of 1 °C (inner block) and 0.4 and 0.65 kg LiBr per kg water in steps of 0.05 (outer block).