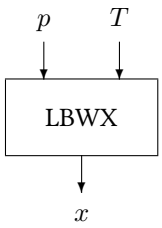
Block LBWX

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

LiBr
x



Model

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

Inputs

1 Pressure p / Pa
2 Temperature T / °C

Outputs

1 Lithium-bromide concentration x / kg LiBr kg^{-1} H_2O

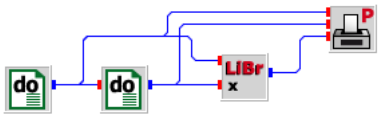
Parameters

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

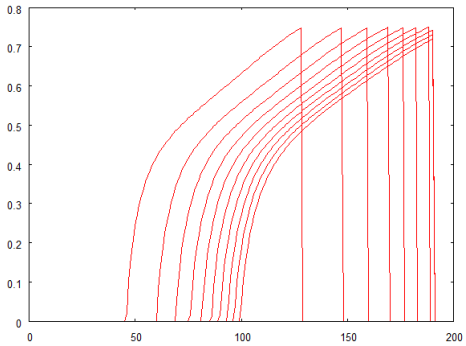
Strings

None

lbwx.vseit



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



The pressure and temperature are varied by two nested DO blocks between 0 and 200 °C in steps of 1 °C (inner block) and 10000 and 100000 Pascal in steps of 10000 (outer block).

The outside-range parameter is set to 10^{-4} so that the curves end at a maximum concentration of 0.76 kg LiBr per kg water.