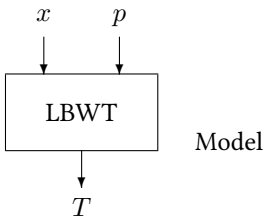
Block LBWT

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





Model

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

Inputs

1 Lithium-bromide concentration x / kg LiBr kg^{-1} H_2O
2 Pressure p / Pa

Outputs

1 Temperature of lithium-bromide-water dilution T / °C

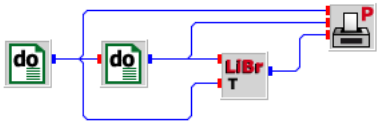
Parameters

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

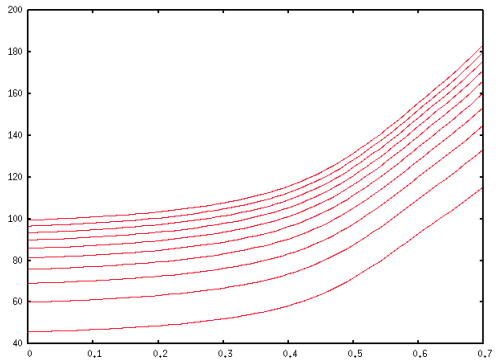
Strings

None

lbwt.vseit



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



The pressure and concentration are varied by two nested DO blocks between 1000 and 101000 Pa in steps of 1000 (outer block) and 0 and 0.76 kg LiBr per kg water in steps of 0.01 (inner block).