AntEqn_3.2

English is not my native language, so please excuse my errors.

AntEqn calculates saturation pressure for a given temperature or saturation temperature for a given pressure using Antoine's equation. There is a list of species from which you can choose yours so you don't have to type A,B,C constants.

Calculator: HP-49G
Version: 3.2
First Version: 31 gen 2002
Last update: 16 oct 2002
Library number: 1007
Size on hp: 3222

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INSTALLATION
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Download the library (number 1007) on the calculator and recall it into the stack. Enter the port number (0,1,2) where you want to store it and press STO. My suggestion is to select port 1 or 2 in order not to decelerate the processor speed. Perform a warmstart by pressing simultaneously [ON][C]. Since the library is now attached you can now delete the variable in Var menù.

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DESCRIPTION
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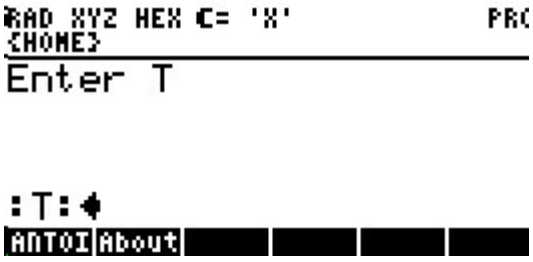
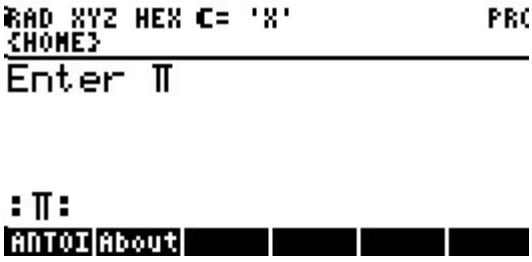
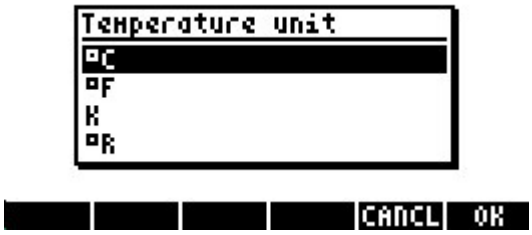
Press AntEq from lib menù to start the program.
Your HP will display what follows:

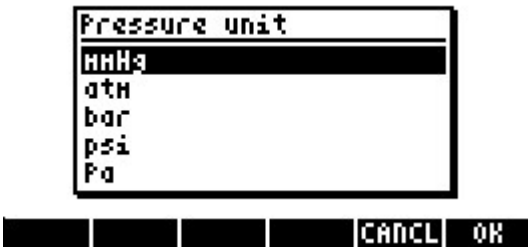
Choose to calculate Tsat or Psat.





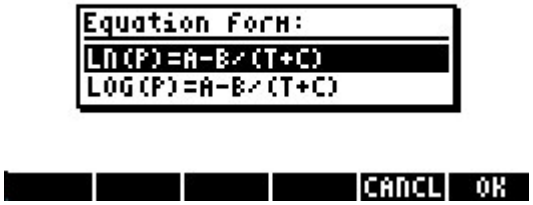
Enter T or P then choose the unit from the following list:

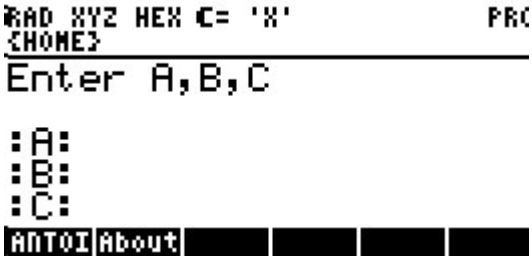




The next screen is:

If you choose to set manually the constants you can also choose the Antoine's equation form. This is very usefull because makes the program more flexible.





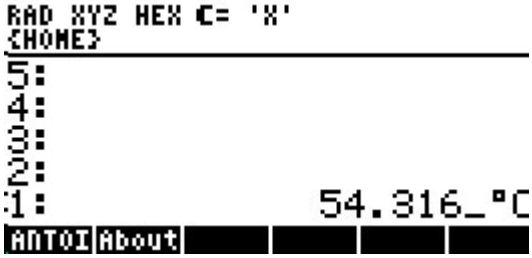
Please notice that since the output units depends on the form of the equation the result unit is unknown so you will get :

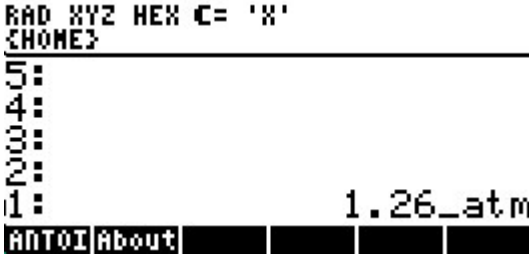
The other option is to choose from a list of 22 species:

The available species are:

Acetone	Acetylene	Air	Ammonia	Benzene
Butane	Cyclobenzene	Ethane	Ethanol	Ethylbenzene
Etylene	Hexane	Isobutane	Isopentane	Methane
Methanol	Oxigen	Pentane	Propene	Phenol
Toluene	Water			

Once you selected the specie you will get Tsat (°C) or Psat (atm)





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NOTICE
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Thank you for downloading this program.

Padova, 16/10/2002

For any suggestion or comment please contact me at franzcol@inwind.it .