

This program uses a database and linear interpolation method to provide data relative to Temperature, Internal Energy, Enthalpy and Entropy. For the last one, Pressure is taken into account. Knowing one of the first 4 variables and the Pressure (that influences only the Entropy) the others are obtained. If never Entropy nor Pressure are known, Pressure is equal to 1 bar per default. In addition for each gas is provided a list of some fundamental constants: Critic Pressure, Critic Temperature...

You know Temperature (450 K) and Pressure (1.5 bar) and you want Entropy, Enthalpy and Internal Energy of H2.

Copy all files in the same fold and select it.

Enter gastab() and select the gas you want and Properties

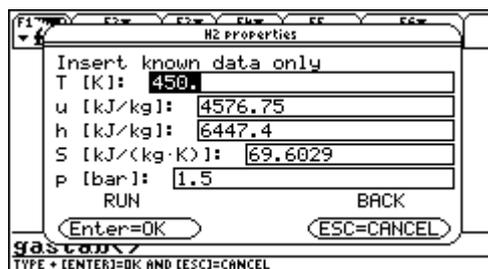


Enter



Enter

And you'll have:



If you know the Entropy ( $80 \frac{kJ}{Kg \cdot K}$ ) and Pressure (1.5 bar) and you want T,u,h



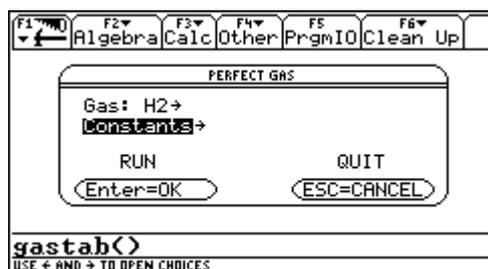
Enter

You will have:

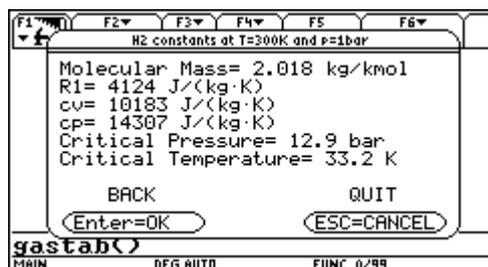


If you want to know H2 constants

Back and select constants



Enter



Usually you need to know Pressure (p) or Entropy (S), if don't know S neither p the program takes p=1 bar per default.

Warning: look at the data to be sure that all values are in their correct range! If not the program returns an error.

This program has been already used many times without problems. If you find any bug first assure you to have selected the English language in the Mode and not to have translated the code with any program. If the problem persists, please, let me know.

For a better and faster answer, please, enclose some screenshot of the bug: entered inputs, expected outputs, error messages, erroneous code line, Mode setting... it will help me very much!

My address is [paolosilingardi@interfree.it](mailto:paolosilingardi@interfree.it); write **TI-Program** as Object of e-mail!

**IN ORDER TO PREVENT SPAMMING, E-MAIL WITHOUT THE CORRECT OBJECT  
WILL BE AUTOMATICALLY DELETED!**

You can find all my programs at this address:

<http://www.ticalc.org/archives/files/authors/44/4458.html>.

Remember to vote this program in the site!

Paolo Silingardi