

# HSC Chemistry

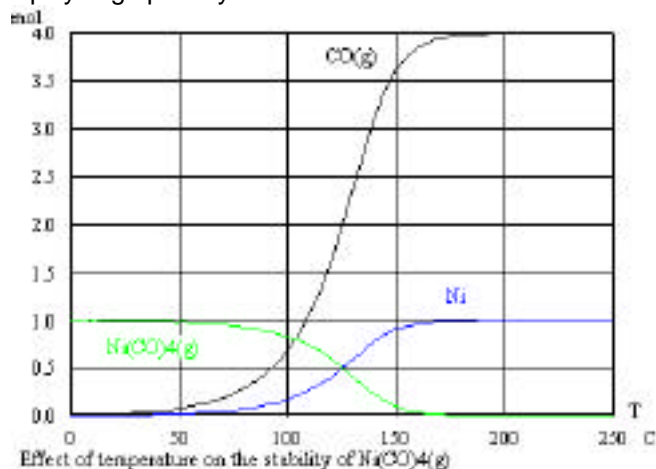
HSC Chemistry for Windows is a chemical reaction and equilibrium software package which offers an efficient method to examine chemical reaction systems on your personal computer. All calculations utilize an integrated thermochemical database that includes more than 7600 compounds.

HSC offers seven calculation options:

- Computation of Gibbs Free Energy and Equilibrium Constants for Reaction Equations,
- Computation of Heat and Material Balances,
- Computation of Equilibrium Compositions,
- Computation of Formula Weight,
- Computation of Electrochemical Cell Equilibria,
- Computation of Phase Stability Diagrams, and
- Computation of Eh-pH (Pourbaix) Diagrams

Calculations are completely menu-driven, and the program includes on-line help providing instructions, examples, and theoretical considerations. Results can be displayed graphically or as tabular data.

HSC users can rapidly test synthesis or production idea on the computer before beginning expensive and time-consuming laboratory or industrial-scale experiments. HSC's result will, for example, show the effect of temperature or raw material amount on the compositions of products and by-products. HSC helps to avoid expensive trial-and-error chemistry by allowing the chemist or engineer to determine optimal reaction conditions for their experimental investigations. Finally, the integrated thermochemical database and graphical interface makes the system ideally suited for teaching equilibrium thermodynamics in physical chemistry, analytical chemistry, and chemical engineering curriculums.



For additional information, please refer to the following URL: <http://www.ari.net/ars/hsc.html>

Platform: Windows NT

License restrictions: none

Number of copies: 50

Requested by: P. Anderson

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