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Thermodynamic
Values At 298 15 K

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Thermodynamic

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Thermodynamic Values At

Standard

Thermodynamic Values

at 25°C Please note

that enthalpy and free

energy values are

given in kJ/mol while

entropy values are

given in J/(mol·K).

Formula State H f 0 S 0

G f 0 (BOCl) 3 (g)

-1633.43 380.74

-1550.17 (CN) 2 (g) -

cyanogen 308.95

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242.25 297.19 (NH₂)

2CO (s) - urea -333.51

104.60 -196.82 (NH₄)

Standard Thermodynamic Values at 25°C - Chemistry-Reference

Standard-State

Thermodynamic Values

at 298.15 K. Standard-

State Thermodynamic

Values at 298.15 K:

Enthalpy of Formation

(ΔH_f°), Free Energy

of Formation (ΔG_f°),

and Absolute Entropy

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Thermodynamic Values at 298.15 K
(So) Substance DH. f
o(kj/mol. rxn) DG. f
o(kj/mol. rxn) S.

Standard-State Thermodynamic Values at 298.15 K

The standard state temperature is 25°C (298 K). It is possible to calculate standard state values for other temperatures. All liquids are pure. The concentration of all solutions is 1 M (1 molar). All gases are

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pure. All gases are at 1 atm pressure. The energy of formation of an element in its normal state is defined as zero.

Standard State Conditions of Temperature and Pressure

Standard
Thermodynamic Values
Formula State of
Matter Enthalpy
(kJ/mol) Entropy (J
mol/K) Gibbs Free

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Energy (kJ/mol) (NH₄)

2O (l) -430.70096 15 K

267.52496 -267.10656

(NH₄)₂SiF₆ (s

hexagonal)

-2681.69296

280.24432

-2365.54992 (NH₄)

2SO₄ (s) -1180.85032

220.0784 -901.90304

Ag (s) 0 42.55128 0 Ag

(g) 284.55384

172.887064 245.68448

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Values - drjez.com

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THERMODYNAMIC
VALUES AT STANDARD
STATE (298K) Data

Retrieved From: Kots,
Treichel, Weaver
Chemistry & Chemical
Reactivity (Sixth
Edition) COPYRIGHT
2006! Species Name
Enthalpy " ΔH_o " (kJ/mol)
Entropy " S_o "
(J/(mol*K)) Gibbs
energy " ΔG_o " (kJ/mol)

H2O (l) liquid water	-285.83	69.95	-237.15
H2O (g) water vapor	-241.83	188.84	-228.59

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Thermodynamic

Thermodynamic Values at Standard State - van Maarseveen

For a given material or substance, the standard state is the reference state for the material's thermodynamic state properties such as enthalpy, entropy, Gibbs free energy, and for many other material standards.

The standard enthalpy

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change of formation for an element in its standard state is zero, and this convention allows a wide range of other thermodynamic quantities to be calculated and tabulated. The standard state of a substance does not have to exist in nature: for example, it is possible

Standard state - Wikipedia

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Thermodynamic Values At 298.15 K

For an element the standard state is the form in which the element exists (is more stable) under condition of 1 bar and at the temperature of interest (usually 25°C). ΔH_0^f for an element in its standard state is zero. Thus, elements in their standard states are not included in the ΔH reaction calculations. Note!

Standard state and

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Thermodynamic
enthalpy of
formation, Gibbs
free ...

Standard

Thermodynamic

Quantities for Chemical
Substances at 25°C.

Source of data: CRC

Handbook of Chemistry
and Physics, 84th

Edition (2004). T1:

Standard

Thermodynamic

Quantities - Chemistry

LibreTexts

T1: Standard

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Thermodynamic

Quantities - 298 15 K

Chemistry

LibreTexts

*Taken from "The NBS
Tables of Chemical
Thermodynamic
Properties" (1982) and
"CRC Handbook of
Chemistry and
Physics", 1st Student
Edition (1988) ...

**Table of
Thermodynamic
Values -**

UW-Madison

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Thermodynamic Values At 298.15 K

An older definition used atmospheres for pressure, while modern calculations are for pascals. Standard state conditions are used for thermodynamic calculations. Several conditions are specified for the standard state: The standard state temperature is 25 degrees C (298 K).

Standard Conditions Versus Standard State

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Appendix G: Standard
Thermodynamic
Properties for Selected
Substances Appendix
H: Ionization Constants
of Weak Acids
Appendix I: Ionization
Constants of Weak
Bases

Appendix G: Standard Thermodynamic Properties for Selected ...

Table of Contents. This
page contains several

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tables detailing the standard thermodynamic properties for several different substances. The table has been separated by substance, as listed below:

Standard Thermodynamic Properties for Selected Substances

...

Standard Thermodynamic
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Values. Standard

Thermodynamic
Values at 298.15 K

Values. at 25.0 C

(298.15 K) Formula. ΔH

. f(kJ/mol) ΔG . f.

Standard Thermodynamic Values - The Art of Chemistry

Standard

Thermodynamic Values

at 25°C . Please note

that enthalpy and free

energy values are

given in kJ/mol while

entropy values are

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given in J/(mol·K).

Compound ΔH_f° S° G_f° K

f° (BOCl) 3 (g) -1633.4

380.7 -1550.2 (CN) 2 (g

cyanogen) 309.0 242.3

297.2 (NH 2) 2CO (s

urea) -333.5 104.6

-196.8 (NH 4) 2O (l)

-430.7 267.5 -267.1

(NH 4) 2SiF

Standard Thermodynamic Values at 25°C - Chemistry-Reference

The properties

tabulated are: ΔfH°

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Thermodynamic
Values at 298.15 K

Standard molar enthalpy (heat) of formation at 298.15 K in kJ/mol $\Delta_f G^\circ$ Standard molar Gibbs energy of formation at 298.15 K in kJ/mol S° Standard molar entropy at 298.15 K in J/mol K C_p Molar heat capacity at constant pressure at 298.15 K in J/mol K The standard state pressure is 100 kPa (1 bar).

STANDARD

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THERMODYNAMIC PROPERTIES OF 15 K CHEMICAL SUBSTANCES

Recall that the symbol $^\circ$ refers to the standard state of a substance measured under the conditions of 1 atm pressure or an effective concentration of 1 Molar and a temperature of 298K. The other factor to keep in mind is that enthalpy values are normally given in [latex

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Thermodynamic Values At 298.15 K

$\frac{\text{kJ}}{\text{mole}}$ while entropy values are given in $\frac{\text{J}}{\text{K} \times \text{mole}}$.

Standard Free Energy Changes | Introduction to Chemistry

Physical and thermodynamic tables. In the following tables, values are temperature-dependent and to a lesser degree pressure-dependent, and are

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Thermodynamic
Values 298.15K

arranged by state of aggregation (s = solid, lq = liquid, g = gas), which are clearly a function of temperature and pressure.

Water (data page) - Wikipedia

Thermodynamic data. Thermodynamic data is usually presented as a table or chart of function values for one mole of a substance (or in the case of the

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steam tables, one kg).

A thermodynamic Value 15 K datafile is a set of equation parameters from which the numerical data values can be calculated.

Tables and datafiles are usually presented at a standard pressure of 1 bar or 1 atm, but in the case of steam and other industrially important gases, pressure may be included as a variable.

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