



# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1211.64	J/mol×K	561.74	Joback Method
cpg	1230.93	J/mol×K	584.72	Joback Method
cpg	1248.26	J/mol×K	607.69	Joback Method
cpg	1263.77	J/mol×K	630.67	Joback Method
cpg	1277.60	J/mol×K	653.64	Joback Method
cpg	1289.88	J/mol×K	676.62	Joback Method
cpg	1300.76	J/mol×K	699.59	Joback Method
hfust	80.33	kJ/mol	437.90	NIST Webbook
hfust	0.67	kJ/mol	149.50	NIST Webbook
hfust	11.25	kJ/mol	202.90	NIST Webbook
hfust	80.33	kJ/mol	437.90	NIST Webbook
sfust	4.48	J/mol×K	149.50	NIST Webbook
sfust	55.45	J/mol×K	202.90	NIST Webbook
sfust	183.44	J/mol×K	437.90	NIST Webbook

## Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Applications of Correlation Gas Chromatography and Transpiration

<https://www.doi.org/10.1021/je300504f>

Joback Method Evaluation of the Vaporization and Sublimation

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

Enthalpies of Some Perfluorinated Hydrocarbons:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C37589574&Units=SI>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l

<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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