

# Adipamide

<b>Other names:</b>	Hexanediamide Adipic acid amide Adipic acid diamide Adipic diamide NCI-C02095 1,4-Butanedicarboxamide
<b>Inchi:</b>	InChI=1S/C6H12N2O2/c7-5(9)3-1-2-4-6(8)10/h1-4H2,(H2,7,9)(H2,8,10)
<b>InchiKey:</b>	GVNWZKBFMFUVNX-UHFFFAOYSA-N
<b>Formula:</b>	C6H12N2O2
<b>SMILES:</b>	NC(=O)CCCC(N)=O
<b>Mol. weight [g/mol]:</b>	144.17
<b>CAS:</b>	628-94-4

## Physical Properties

Property code	Value	Unit	Source
gf	-125.30	kJ/mol	Joback Method
hf	-324.75	kJ/mol	Joback Method
hfus	24.89	kJ/mol	Joback Method
hvap	63.72	kJ/mol	Joback Method
log10ws	-0.75		Crippen Method
logp	-0.483		Crippen Method
mcvol	118.500	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
tb	589.48	K	Joback Method
tc	799.71	K	Joback Method
tf	423.76	K	Joback Method
vc	0.442	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.16	J/mol×K	589.48	Joback Method
cpg	304.16	J/mol×K	624.52	Joback Method
cpg	313.58	J/mol×K	659.56	Joback Method

cpg	322.45	J/mol×K	694.60	Joback Method
cpg	330.78	J/mol×K	729.64	Joback Method
cpg	338.60	J/mol×K	764.68	Joback Method
cpg	345.91	J/mol×K	799.71	Joback Method
hfust	52.72	kJ/mol	499.10	NIST Webbook

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C628944&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C628944&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/113-245-4/Adipamide.pdf>

Generated by Cheméo on 2024-05-04 06:44:57.338748076 +0000 UTC m=+17094346.259325395.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.