

ADIPAMIDE

Other names:	1,4-butanedicarboxamide Adipic diamide NCI-C02095 adipic acid amide adipic acid diamide hexanediamide
Inchi:	InChI=1S/C6H12N2O2/c7-5(9)3-1-2-4-6(8)10/h1-4H2,(H2,7,9)(H2,8,10)
InchiKey:	GVNWZKBFMFUVNX-UHFFFAOYSA-N
Formula:	C6H12N2O2
SMILES:	NC(=O)CCCCC(N)=O
Mol. weight [g/mol]:	144.17

Physical Properties

Property code	Value	Unit	Source
hf	-524.71	kJ/mol	Cheméo Relay (1.0)
hfus	52.72	kJ/mol	Odd even effect in melting properties of 12 alkane- α , α -diamides
hvap	78.88	kJ/mol	Cheméo Relay (1.0)
ie	9.51	eV	Cheméo Relay (1.0)
log10ws	-0.84		Cheméo Relay (1.0)
logp	-0.483		Crippen Method
mcvol	118.500	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
tb	527.62	K	Cheméo Relay (1.0)
tf	409.59	K	Cheméo Relay (1.0)

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

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Odd even effect in melting properties of <https://www.doi.org/10.1016/j.jct.2006.04.004>

12 alkane-a,x-diamides:

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C628944&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

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

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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