

# Glutamine, n,n-dimethyl-

<b>Inchi:</b>	InChI=1S/C7H14N2O3/c1-9(2)6(10)4-3-5(8)7(11)12/h5H,3-4,8H2,1-2H3,(H,11,12)
<b>InchiKey:</b>	SMWQVIPJGSEJPA-UHFFFAOYSA-N
<b>Formula:</b>	C7H14N2O3
<b>SMILES:</b>	CN(C)C(=O)CCC(N)C(=O)O
<b>Mol. weight [g/mol]:</b>	174.20
<b>CAS:</b>	21432-98-4

## Physical Properties

Property code	Value	Unit	Source
gf	-211.81	kJ/mol	Joback Method
hf	-469.16	kJ/mol	Joback Method
hfus	25.87	kJ/mol	Joback Method
hvap	73.64	kJ/mol	Joback Method
log10ws	0.26		Crippen Method
logp	-0.733		Crippen Method
mcvol	138.460	ml/mol	McGowan Method
pc	3862.67	kPa	Joback Method
tb	644.01	K	Joback Method
tc	832.91	K	Joback Method
tf	430.06	K	Joback Method
vc	0.499	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.33	J/molxK	644.01	Joback Method
cpg	379.17	J/molxK	675.49	Joback Method
cpg	388.45	J/molxK	706.98	Joback Method
cpg	397.19	J/molxK	738.46	Joback Method
cpg	405.41	J/molxK	769.94	Joback Method
cpg	413.14	J/molxK	801.42	Joback Method
cpg	420.38	J/molxK	832.91	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<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=C21432984&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21432984&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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>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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