

# Alpha,alpha'-diacetyl-n,n'-diethyl-glutaramide

<b>Inchi:</b>	InChI=1S/C13H22N2O4/c1-5-14-12(18)10(8(3)16)7-11(9(4)17)13(19)15-6-2/h10-11H,5-7
<b>InchiKey:</b>	SHOUVPPYMUVAON-UHFFFAOYSA-N
<b>Formula:</b>	C13H22N2O4
<b>SMILES:</b>	CCNC(=O)C(CC(C(C)=O)C(=O)NCC)C(C)=O
<b>Mol. weight [g/mol]:</b>	270.32
<b>CAS:</b>	92107-46-5

## Physical Properties

Property code	Value	Unit	Source
gf	-283.20	kJ/mol	Joback Method
hf	-665.59	kJ/mol	Joback Method
hfus	38.97	kJ/mol	Joback Method
hvap	83.61	kJ/mol	Joback Method
log10ws	-1.27		Crippen Method
logp	0.059		Crippen Method
mcvol	220.270	ml/mol	McGowan Method
pc	2119.73	kPa	Joback Method
tb	811.78	K	Joback Method
tc	1013.42	K	Joback Method
tf	511.31	K	Joback Method
vc	0.846	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	661.59	J/molxK	811.78	Joback Method
cpg	674.13	J/molxK	845.39	Joback Method
cpg	685.79	J/molxK	878.99	Joback Method
cpg	696.60	J/molxK	912.60	Joback Method
cpg	706.59	J/molxK	946.21	Joback Method
cpg	715.79	J/molxK	979.81	Joback Method
cpg	724.22	J/molxK	1013.42	Joback Method

# Sources

<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>
<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=C92107465&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C92107465&amp;Units=SI</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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