

# (1-Methylbutyl) glycine

<b>Inchi:</b>	InChI=1S/C7H15NO2/c1-3-4-5(2)6(8)7(9)10/h5-6H,3-4,8H2,1-2H3,(H,9,10)
<b>InchiKey:</b>	KWSUGULOZFMUDH-UHFFFAOYSA-N
<b>Formula:</b>	C7H15NO2
<b>SMILES:</b>	CCCC(C)C(N)C(=O)O
<b>Mol. weight [g/mol]:</b>	145.20
<b>CAS:</b>	60182-96-9

## Physical Properties

Property code	Value	Unit	Source
gf	-196.11	kJ/mol	Joback Method
hf	-429.39	kJ/mol	Joback Method
hfus	17.72	kJ/mol	Joback Method
hvap	64.47	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	0.835		Crippen Method
mcvol	126.910	ml/mol	McGowan Method
pc	3620.24	kPa	Joback Method
tb	577.26	K	Joback Method
tc	763.93	K	Joback Method
tf	332.66	K	Joback Method
vc	0.469	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.89	J/molxK	577.26	Joback Method
cpg	331.46	J/molxK	608.37	Joback Method
cpg	341.51	J/molxK	639.48	Joback Method
cpg	351.06	J/molxK	670.59	Joback Method
cpg	360.12	J/molxK	701.70	Joback Method
cpg	368.71	J/molxK	732.82	Joback Method
cpg	376.84	J/molxK	763.93	Joback Method

# Sources

<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=C60182969&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60182969&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>

# 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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