

# N-(2,6-Dioxo-piperidin-3-yl)-2-phenyl-acetamide

<b>Inchi:</b>	InChI=1S/C13H14N2O3/c16-11-7-6-10(13(18)15-11)14-12(17)8-9-4-2-1-3-5-9/h1-5,10H,
<b>InchiKey:</b>	OQGRFQCUGLKS AV-UHFFFAOYSA-N
<b>Formula:</b>	C13H14N2O3
<b>SMILES:</b>	O=C1CCC(NC(=O)Cc2ccccc2)C(=O)N1
<b>Mol. weight [g/mol]:</b>	246.26

## Physical Properties

Property code	Value	Unit	Source
gf	-1.56	kJ/mol	Joback Method
hf	-317.50	kJ/mol	Joback Method
hfus	30.61	kJ/mol	Joback Method
hvap	75.67	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	0.151		Crippen Method
mcvol	184.080	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
rinpol	2275.00		NIST Webbook
rinpol	2275.00		NIST Webbook
tb	831.30	K	Joback Method
tc	1094.13	K	Joback Method
tf	614.13	K	Joback Method
vc	0.680	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	565.68	J/molxK	831.30	Joback Method
cpg	580.38	J/molxK	875.11	Joback Method
cpg	593.22	J/molxK	918.91	Joback Method
cpg	604.16	J/molxK	962.72	Joback Method
cpg	613.17	J/molxK	1006.52	Joback Method
cpg	620.20	J/molxK	1050.33	Joback Method
cpg	625.21	J/molxK	1094.13	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=R247993&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R247993&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>rinpola:</b>	Non-polar retention indices
<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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