

# Acetamide, 2-phenyl-N-butyl-N-hept-2-yl-

<b>Inchi:</b>	InChI=1S/C19H31NO/c1-4-6-9-12-17(3)20(15-7-5-2)19(21)16-18-13-10-8-11-14-18/h8,10
<b>InchiKey:</b>	JLMXKLARNZPTNZ-UHFFFAOYSA-N
<b>Formula:</b>	C19H31NO
<b>SMILES:</b>	CCCCC(C)N(CCCC)C(=O)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	289.46

## Physical Properties

Property code	Value	Unit	Source
gf	200.93	kJ/mol	Joback Method
hf	-249.29	kJ/mol	Joback Method
hfus	40.10	kJ/mol	Joback Method
hvap	68.56	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.827		Crippen Method
mvol	266.360	ml/mol	McGowan Method
pc	1432.63	kPa	Joback Method
rinpol	1581.00		NIST Webbook
rinpol	1581.00		NIST Webbook
tb	726.67	K	Joback Method
tc	919.33	K	Joback Method
tf	397.71	K	Joback Method
vc	1.010	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	779.75	J/mol×K	726.67	Joback Method
cpg	798.54	J/mol×K	758.78	Joback Method
cpg	816.24	J/mol×K	790.89	Joback Method
cpg	832.91	J/mol×K	823.00	Joback Method
cpg	848.60	J/mol×K	855.11	Joback Method
cpg	863.36	J/mol×K	887.22	Joback Method
cpg	877.24	J/mol×K	919.33	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415674&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415674&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>
<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>

# 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>hvp:</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>rinp:</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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