

# 2-Butenamide,N-phenyl-

<b>Inchi:</b>	InChI=1S/C10H11NO/c1-2-6-10(12)11-9-7-4-3-5-8-9/h2-8H,1H3,(H,11,12)/b6-2+
<b>InchiKey:</b>	BZSYMAHNJHZCB-QHHAFSJGSA-N
<b>Formula:</b>	C10H11NO
<b>SMILES:</b>	CC=CC(=O)Nc1ccccc1
<b>Mol. weight [g/mol]:</b>	161.20
<b>CAS:</b>	1733-40-0

## Physical Properties

Property code	Value	Unit	Source
gf	186.42	kJ/mol	Joback Method
hf	44.91	kJ/mol	Joback Method
hfus	22.60	kJ/mol	Joback Method
hvap	53.27	kJ/mol	Joback Method
ie	8.70 ± 0.10	eV	NIST Webbook
log10ws	-2.37		Crippen Method
logp	2.201		Crippen Method
mcvol	135.250	ml/mol	McGowan Method
pc	3384.14	kPa	Joback Method
tb	563.08	K	Joback Method
tc	788.04	K	Joback Method
tf	326.39	K	Joback Method
vc	0.508	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.56	J/mol×K	563.08	Joback Method
cpg	317.84	J/mol×K	600.57	Joback Method
cpg	330.17	J/mol×K	638.07	Joback Method
cpg	341.62	J/mol×K	675.56	Joback Method
cpg	352.23	J/mol×K	713.05	Joback Method
cpg	362.07	J/mol×K	750.54	Joback Method
cpg	371.19	J/mol×K	788.04	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=C1733400&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1733400&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>

# 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>ie:</b>	Ionization energy
<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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