

# Benzamide, 4-nitro-N-ethyl-N-octyl-

<b>Inchi:</b>	InChI=1S/C17H26N2O3/c1-3-5-6-7-8-9-14-18(4-2)17(20)15-10-12-16(13-11-15)19(21)22
<b>InchiKey:</b>	DYDAEUOSVRENRR-UHFFFAOYSA-N
<b>Formula:</b>	C17H26N2O3
<b>SMILES:</b>	CCCCCCCCN(CC)C(=O)c1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	306.40

## Physical Properties

Property code	Value	Unit	Source
gf	212.45	kJ/mol	Joback Method
hf	-224.96	kJ/mol	Joback Method
hfus	49.42	kJ/mol	Joback Method
hvap	81.75	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	4.417		Crippen Method
mvol	255.600	ml/mol	McGowan Method
pc	1651.11	kPa	Joback Method
rinpol	2696.00		NIST Webbook
rinpol	2696.00		NIST Webbook
tb	838.17	K	Joback Method
tc	1052.54	K	Joback Method
tf	546.30	K	Joback Method
vc	0.986	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	786.90	J/mol×K	838.17	Joback Method
cpg	802.15	J/mol×K	873.90	Joback Method
cpg	816.36	J/mol×K	909.63	Joback Method
cpg	829.59	J/mol×K	945.36	Joback Method
cpg	841.91	J/mol×K	981.09	Joback Method
cpg	853.39	J/mol×K	1016.81	Joback Method
cpg	864.08	J/mol×K	1052.54	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U415294&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415294&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>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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