

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

<b>Inchi:</b>	InChI=1S/C12H16N2O3/c1-3-9-13(4-2)12(15)10-5-7-11(8-6-10)14(16)17/h5-8H,3-4,9H2,
<b>InchiKey:</b>	MEZZOOCCIIBLN-UHFFFAOYSA-N
<b>Formula:</b>	C12H16N2O3
<b>SMILES:</b>	CCCN(CC)C(=O)c1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	236.27

## Physical Properties

Property code	Value	Unit	Source
gf	170.35	kJ/mol	Joback Method
hf	-121.76	kJ/mol	Joback Method
hfus	36.47	kJ/mol	Joback Method
hvap	70.62	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	2.467		Crippen Method
mvol	185.150	ml/mol	McGowan Method
pc	2548.19	kPa	Joback Method
rinpol	2095.00		NIST Webbook
rinpol	2095.00		NIST Webbook
tb	723.77	K	Joback Method
tc	951.89	K	Joback Method
tf	489.95	K	Joback Method
vc	0.706	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	510.96	J/mol×K	723.77	Joback Method
cpg	524.73	J/mol×K	761.79	Joback Method
cpg	537.48	J/mol×K	799.81	Joback Method
cpg	549.27	J/mol×K	837.83	Joback Method
cpg	560.15	J/mol×K	875.85	Joback Method
cpg	570.19	J/mol×K	913.87	Joback Method
cpg	579.45	J/mol×K	951.89	Joback Method

# Sources

<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=U415286&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415286&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>h vap:</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>r in pol:</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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