

# Benzamide, N,N-didecyl-4-ethyl-

<b>Inchi:</b>	InChI=1S/C29H51NO/c1-4-7-9-11-13-15-17-19-25-30(26-20-18-16-14-12-10-8-5-2)29(31
<b>InchiKey:</b>	ZCIIIELUHLTXED-UHFFFAOYSA-N
<b>Formula:</b>	C29H51NO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCCCC)C(=O)c1ccc(CC)cc1
<b>Mol. weight [g/mol]:</b>	429.72

## Physical Properties

Property code	Value	Unit	Source
gf	277.94	kJ/mol	Joback Method
hf	-461.88	kJ/mol	Joback Method
hfus	69.14	kJ/mol	Joback Method
hvap	91.87	kJ/mol	Joback Method
log10ws	-9.95		Crippen Method
logp	8.973		Crippen Method
mvol	407.260	ml/mol	McGowan Method
pc	761.00	kPa	Joback Method
rinpol	3294.00		NIST Webbook
rinpol	3294.00		NIST Webbook
tb	960.89	K	Joback Method
tc	1178.19	K	Joback Method
tf	537.93	K	Joback Method
vc	1.575	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1397.40	J/molxK	960.89	Joback Method
cpg	1419.26	J/molxK	997.11	Joback Method
cpg	1439.75	J/molxK	1033.32	Joback Method
cpg	1458.96	J/molxK	1069.54	Joback Method
cpg	1476.99	J/molxK	1105.75	Joback Method
cpg	1493.96	J/molxK	1141.97	Joback Method
cpg	1509.95	J/molxK	1178.19	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=U308552&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308552&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.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>

# 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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