

# Benzamide, N,N-dioctyl-4-ethyl-

<b>Inchi:</b>	InChI=1S/C25H43NO/c1-4-7-9-11-13-15-21-26(22-16-14-12-10-8-5-2)25(27)24-19-17-23
<b>InchiKey:</b>	NAWMFDZBNXJFFW-UHFFFAOYSA-N
<b>Formula:</b>	C25H43NO
<b>SMILES:</b>	CCCCCCCCN(CCCCCCCC)C(=O)c1ccc(CC)cc1
<b>Mol. weight [g/mol]:</b>	373.62

## Physical Properties

Property code	Value	Unit	Source
gf	244.26	kJ/mol	Joback Method
hf	-379.32	kJ/mol	Joback Method
hfus	58.78	kJ/mol	Joback Method
hvap	82.97	kJ/mol	Joback Method
log10ws	-8.28		Crippen Method
logp	7.412		Crippen Method
mcvol	350.900	ml/mol	McGowan Method
pc	952.01	kPa	Joback Method
rinpol	2758.00		NIST Webbook
tb	869.37	K	Joback Method
tc	1066.48	K	Joback Method
tf	492.85	K	Joback Method
vc	1.351	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1141.75	J/molxK	869.37	Joback Method
cpg	1161.74	J/molxK	902.22	Joback Method
cpg	1180.56	J/molxK	935.07	Joback Method
cpg	1198.28	J/molxK	967.93	Joback Method
cpg	1214.97	J/molxK	1000.78	Joback Method
cpg	1230.69	J/molxK	1033.63	Joback Method
cpg	1245.51	J/molxK	1066.48	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308550&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308550&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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