

# Benzamide, N,N-dinonyl-4-ethyl-

**Inchi:** InChI=1S/C27H47NO/c1-4-7-9-11-13-15-17-23-28(24-18-16-14-12-10-8-5-2)27(29)26-21  
**InchiKey:** IOOSLTGCIUSZMN-UHFFFAOYSA-N  
**Formula:** C27H47NO  
**SMILES:** CCCCCCCCCN(CCCCCCCC)C(=O)c1ccc(CC)cc1  
**Mol. weight [g/mol]:** 401.67

## Physical Properties

Property code	Value	Unit	Source
gf	261.10	kJ/mol	Joback Method
hf	-420.60	kJ/mol	Joback Method
hfus	63.96	kJ/mol	Joback Method
hvap	87.42	kJ/mol	Joback Method
log10ws	-9.12		Crippen Method
logp	8.192		Crippen Method
mvol	379.080	ml/mol	McGowan Method
pc	848.50	kPa	Joback Method
rinpol	2989.00		NIST Webbook
rinpol	2989.00		NIST Webbook
tb	915.13	K	Joback Method
tc	1120.39	K	Joback Method
tf	515.39	K	Joback Method
vc	1.464	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1268.45	J/mol×K	915.13	Joback Method
cpg	1289.25	J/mol×K	949.34	Joback Method
cpg	1308.79	J/mol×K	983.55	Joback Method
cpg	1327.16	J/mol×K	1017.76	Joback Method
cpg	1344.43	J/mol×K	1051.97	Joback Method
cpg	1360.69	J/mol×K	1086.18	Joback Method
cpg	1376.01	J/mol×K	1120.39	Joback Method

# Sources

<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=U308551&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308551&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>

# 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>rinpolar:</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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