

# Octanamide, N,N-dinonyl-

<b>Inchi:</b>	InChI=1S/C26H53NO/c1-4-7-10-13-15-18-21-24-27(25-22-19-16-14-11-8-5-2)26(28)23-2
<b>InchiKey:</b>	BTQILVQTQBZOGO-UHFFFAOYSA-N
<b>Formula:</b>	C26H53NO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCC)C(=O)CCCCC
<b>Mol. weight [g/mol]:</b>	395.71

## Physical Properties

Property code	Value	Unit	Source
gf	149.90	kJ/mol	Joback Method
hf	-625.02	kJ/mol	Joback Method
hfus	67.72	kJ/mol	Joback Method
hvap	82.26	kJ/mol	Joback Method
log10ws	-9.05		Crippen Method
logp	8.677		Crippen Method
mvol	388.750	ml/mol	McGowan Method
pc	749.38	kPa	Joback Method
rinpol	2789.00		NIST Webbook
rinpol	2789.00		NIST Webbook
tb	860.59	K	Joback Method
tc	1054.80	K	Joback Method
tf	465.18	K	Joback Method
vc	1.516	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1296.13	J/molxK	860.59	Joback Method
cpg	1319.43	J/molxK	892.96	Joback Method
cpg	1341.45	J/molxK	925.33	Joback Method
cpg	1362.26	J/molxK	957.70	Joback Method
cpg	1381.93	J/molxK	990.07	Joback Method
cpg	1400.51	J/molxK	1022.44	Joback Method
cpg	1418.09	J/molxK	1054.80	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308447&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308447&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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