

# Benzamide, 3,4-dimethoxy-N-(hept-2-yl)-

<b>Inchi:</b>	InChI=1S/C16H25NO3/c1-5-6-7-8-12(2)17-16(18)13-9-10-14(19-3)15(11-13)20-4/h9-12H
<b>InchiKey:</b>	VGDFNVUARCVODJ-UHFFFAOYSA-N
<b>Formula:</b>	C16H25NO3
<b>SMILES:</b>	CCCCC(C)NC(=O)c1ccc(OC)c(OC)c1
<b>Mol. weight [g/mol]:</b>	279.37

## Physical Properties

Property code	Value	Unit	Source
gf	-74.98	kJ/mol	Joback Method
hf	-488.81	kJ/mol	Joback Method
hfus	36.01	kJ/mol	Joback Method
hvap	72.42	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	3.402		Crippen Method
mvol	235.830	ml/mol	McGowan Method
pc	1731.78	kPa	Joback Method
rinpol	2316.00		NIST Webbook
rinpol	2316.00		NIST Webbook
tb	750.56	K	Joback Method
tc	950.78	K	Joback Method
tf	453.59	K	Joback Method
vc	0.894	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.47	J/molxK	750.56	Joback Method
cpg	702.62	J/molxK	783.93	Joback Method
cpg	717.78	J/molxK	817.30	Joback Method
cpg	731.96	J/molxK	850.67	Joback Method
cpg	745.16	J/molxK	884.04	Joback Method
cpg	757.40	J/molxK	917.41	Joback Method
cpg	768.69	J/molxK	950.78	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=U408005&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U408005&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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