

# Benzamide, pentafluoro-N-(hept-2-yl)-

<b>Inchi:</b>	InChI=1S/C14H16F5NO/c1-3-4-5-6-7(2)20-14(21)8-9(15)11(17)13(19)12(18)10(8)16/h7H
<b>InchiKey:</b>	DHRASMLUZLFSE-UHFFFAOYSA-N
<b>Formula:</b>	C14H16F5NO
<b>SMILES:</b>	CCCCC(C)NC(=O)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	309.27

## Physical Properties

Property code	Value	Unit	Source
gf	-884.76	kJ/mol	Joback Method
hf	-1198.05	kJ/mol	Joback Method
hfus	42.69	kJ/mol	Joback Method
hvap	61.05	kJ/mol	Joback Method
log10ws	-6.10		Crippen Method
logp	4.081		Crippen Method
mvol	204.760	ml/mol	McGowan Method
pc	1670.06	kPa	Joback Method
rinpol	1689.00		NIST Webbook
rinpol	1689.00		NIST Webbook
tb	671.25	K	Joback Method
tc	846.21	K	Joback Method
tf	427.10	K	Joback Method
vc	0.837	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.77	J/molxK	671.25	Joback Method
cpg	572.54	J/molxK	700.41	Joback Method
cpg	584.69	J/molxK	729.57	Joback Method
cpg	596.22	J/molxK	758.73	Joback Method
cpg	607.15	J/molxK	787.89	Joback Method
cpg	617.49	J/molxK	817.05	Joback Method
cpg	627.25	J/molxK	846.21	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=U407940&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407940&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>h vap:</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>r in pol:</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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