

# Benzamide, N-heptyl-N-octyl-2,6-difluoro-

<b>Inchi:</b>	InChI=1S/C22H35F2NO/c1-3-5-7-9-11-13-18-25(17-12-10-8-6-4-2)22(26)21-19(23)15-14
<b>InchiKey:</b>	QAPFWRDMYOCOHE-UHFFFAOYSA-N
<b>Formula:</b>	C22H35F2NO
<b>SMILES:</b>	CCCCCCCCN(CCCCCC)C(=O)c1c(F)cccc1F
<b>Mol. weight [g/mol]:</b>	367.52

## Physical Properties

Property code	Value	Unit	Source
gf	-180.25	kJ/mol	Joback Method
hf	-721.09	kJ/mol	Joback Method
hfus	56.78	kJ/mol	Joback Method
hvap	75.32	kJ/mol	Joback Method
log10ws	-7.72		Crippen Method
logp	6.738		Crippen Method
mvol	312.170	ml/mol	McGowan Method
pc	1069.36	kPa	Joback Method
rinpol	2369.00		NIST Webbook
rinpol	2369.00		NIST Webbook
tb	804.25	K	Joback Method
tc	989.59	K	Joback Method
tf	472.74	K	Joback Method
vc	1.220	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	971.53	J/mol×K	804.25	Joback Method
cpg	989.73	J/mol×K	835.14	Joback Method
cpg	1006.92	J/mol×K	866.03	Joback Method
cpg	1023.15	J/mol×K	896.92	Joback Method
cpg	1038.46	J/mol×K	927.81	Joback Method
cpg	1052.89	J/mol×K	958.70	Joback Method
cpg	1066.50	J/mol×K	989.59	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308669&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308669&amp;Units=SI</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>rinpola:</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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