

# Benzamide, N-heptyl-N-octyl-2,3,4-trifluoro-

<b>Inchi:</b>	InChI=1S/C22H34F3NO/c1-3-5-7-9-11-13-17-26(16-12-10-8-6-4-2)22(27)18-14-15-19(23)
<b>InchiKey:</b>	VBCAAZFACPGFQX-UHFFFAOYSA-N
<b>Formula:</b>	C22H34F3NO
<b>SMILES:</b>	CCCCCCCCN(CCCCCC)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	385.51

## Physical Properties

Property code	Value	Unit	Source
gf	-384.69	kJ/mol	Joback Method
hf	-928.67	kJ/mol	Joback Method
hfus	59.47	kJ/mol	Joback Method
hvap	75.17	kJ/mol	Joback Method
log10ws	-8.05		Crippen Method
logp	6.877		Crippen Method
mvol	313.940	ml/mol	McGowan Method
pc	1028.60	kPa	Joback Method
rinpol	2376.00		NIST Webbook
rinpol	2376.00		NIST Webbook
tb	808.50	K	Joback Method
tc	992.49	K	Joback Method
tf	485.85	K	Joback Method
vc	1.238	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	978.82	J/molxK	808.50	Joback Method
cpg	996.65	J/molxK	839.17	Joback Method
cpg	1013.48	J/molxK	869.83	Joback Method
cpg	1029.38	J/molxK	900.50	Joback Method
cpg	1044.36	J/molxK	931.16	Joback Method
cpg	1058.49	J/molxK	961.83	Joback Method
cpg	1071.80	J/molxK	992.49	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=U308424&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308424&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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