

# Benzamide, N,N-dinonyl-2,3,4-trifluoro-

<b>Inchi:</b>	InChI=1S/C25H40F3NO/c1-3-5-7-9-11-13-15-19-29(20-16-14-12-10-8-6-4-2)25(30)21-17
<b>InchiKey:</b>	TWGVCSMOEXBGSD-UHFFFAOYSA-N
<b>Formula:</b>	C25H40F3NO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCC)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	427.59

## Physical Properties

Property code	Value	Unit	Source
gf	-359.43	kJ/mol	Joback Method
hf	-990.59	kJ/mol	Joback Method
hfus	67.24	kJ/mol	Joback Method
hvap	81.84	kJ/mol	Joback Method
log10ws	-9.31		Crippen Method
logp	8.047		Crippen Method
mvol	356.210	ml/mol	McGowan Method
pc	862.01	kPa	Joback Method
rinpol	2676.00		NIST Webbook
rinpol	2676.00		NIST Webbook
tb	877.14	K	Joback Method
tc	1073.99	K	Joback Method
tf	519.66	K	Joback Method
vc	1.405	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1163.14	J/molxK	877.14	Joback Method
cpg	1182.47	J/molxK	909.95	Joback Method
cpg	1200.63	J/molxK	942.76	Joback Method
cpg	1217.69	J/molxK	975.57	Joback Method
cpg	1233.71	J/molxK	1008.38	Joback Method
cpg	1248.75	J/molxK	1041.19	Joback Method
cpg	1262.87	J/molxK	1073.99	Joback Method

# Sources

<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=U308426&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308426&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>rinpolar:</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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