

# Benzamide, 2,5-difluoro-N-(2,5-difluorobenzoyl)-N-dodecyl-

Inchi:	InChI=1S/C26H31F4NO2/c1-2-3-4-5-6-7-8-9-10-11-16-31(25(32)21-17-19(27)12-14-23(2
InchiKey:	WKYDUJRZSDTKOJ-UHFFFAOYSA-N
Formula:	C26H31F4NO2
SMILES:	CCCCCCCCCCCCN(C(=O)c1cc(F)ccc1F)C(=O)c1cc(F)ccc1F
Mol. weight [g/mol]:	465.52

## Physical Properties

Property code	Value	Unit	Source
gf	-571.96	kJ/mol	Joback Method
hf	-1094.86	kJ/mol	Joback Method
hfus	68.16	kJ/mol	Joback Method
hvap	92.94	kJ/mol	Joback Method
log10ws	-9.51		Crippen Method
logp	7.447		Crippen Method
mcvol	349.880	ml/mol	McGowan Method
pc	996.39	kPa	Joback Method
rinpol	2846.00		NIST Webbook
rinpol	2846.00		NIST Webbook
tb	984.82	K	Joback Method
tc	1205.90	K	Joback Method
tf	620.39	K	Joback Method
vc	1.377	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1149.41	J/mol×K	984.82	Joback Method
cpg	1164.63	J/mol×K	1021.67	Joback Method
cpg	1178.67	J/mol×K	1058.51	Joback Method
cpg	1191.63	J/mol×K	1095.36	Joback Method
cpg	1203.58	J/mol×K	1132.21	Joback Method
cpg	1214.62	J/mol×K	1169.05	Joback Method
cpg	1224.84	J/mol×K	1205.90	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=U407613&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407613&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>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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