

# Benzamide, 2,4-difluoro-N-(2,4-difluorobenzoyl)-N-octadecyl-

**Inchi:** InChI=1S/C32H43F4NO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-22-37(31(38)27-28-29-30-31)/N  
**InchiKey:** UQEKQJDZYCYAH-UHFFFAOYSA-N  
**Formula:** C32H43F4NO2  
**SMILES:** CCCCCCCCCCCCCCCCCCN(C(=O)c1ccc(F)cc1F)C(=O)c1ccc(F)cc1F  
**Mol. weight [g/mol]:** 549.68

## Physical Properties

Property code	Value	Unit	Source
gf	-521.44	kJ/mol	Joback Method
hf	-1218.70	kJ/mol	Joback Method
hfus	83.70	kJ/mol	Joback Method
hvap	106.29	kJ/mol	Joback Method
log10ws	-12.03		Crippen Method
logp	9.787		Crippen Method
mvol	434.420	ml/mol	McGowan Method
pc	713.39	kPa	Joback Method
rinpol	3437.00		NIST Webbook
rinpol	3437.00		NIST Webbook
tb	1122.10	K	Joback Method
tc	1400.64	K	Joback Method
tf	688.01	K	Joback Method
vc	1.714	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1524.44	J/mol×K	1122.10	Joback Method
cpg	1543.32	J/mol×K	1168.52	Joback Method
cpg	1560.55	J/mol×K	1214.95	Joback Method
cpg	1576.35	J/mol×K	1261.37	Joback Method
cpg	1590.96	J/mol×K	1307.80	Joback Method
cpg	1604.58	J/mol×K	1354.22	Joback Method
cpg	1617.42	J/mol×K	1400.64	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407633&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407633&amp;Units=SI</a>
<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.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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hvpap:</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>rinppl:</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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