

Benzamide, 3,4-difluoro-N-(3-methylbutyl)-

Inchi:	InChI=1S/C12H15F2NO/c1-8(2)5-6-15-12(16)9-3-4-10(13)11(14)7-9/h3-4,7-8H,5-6H2,1-2
InchiKey:	NPUJTGNHAWSHHG-UHFFFAOYSA-N
Formula:	C12H15F2NO
SMILES:	CC(C)CCNC(=O)c1ccc(F)c(F)c1
Mol. weight [g/mol]:	227.25

Physical Properties

Property code	Value	Unit	Source
gf	-288.28	kJ/mol	Joback Method
hf	-534.03	kJ/mol	Joback Method
hfus	29.43	kJ/mol	Joback Method
hvap	57.07	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	2.741		Crippen Method
mvol	171.270	ml/mol	McGowan Method
pc	2322.54	kPa	Joback Method
rinpol	1693.00		NIST Webbook
rinpol	1693.00		NIST Webbook
tb	612.74	K	Joback Method
tc	808.57	K	Joback Method
tf	365.23	K	Joback Method
vc	0.670	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.76	J/molxK	612.74	Joback Method
cpg	449.48	J/molxK	645.38	Joback Method
cpg	462.45	J/molxK	678.02	Joback Method
cpg	474.66	J/molxK	710.66	Joback Method
cpg	486.16	J/molxK	743.29	Joback Method
cpg	496.97	J/molxK	775.93	Joback Method
cpg	507.10	J/molxK	808.57	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407791&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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