

# D-Alanine, N-(2-fluoro-3-trifluoromethylbenzoyl)-, isobutyl ester

InChI: InChI=1S/C15H17F4NO3/c1-8(2)7-23-14(22)9(3)20-13(21)10-5-4-6-11(12(10)16)15(17,18)24  
InChIKey: CPTACUVKBQHOBY-UHFFFAOYSA-N

Formula: C15H17F4NO3

SMILES: CC(C)COC(=O)C(C)NC(=O)c1cccc(C(F)(F)F)c1F

Mol. weight [g/mol]: 335.29

## Physical Properties

Property code	Value	Unit	Source
gf	-886.16	kJ/mol	Joback Method
hf	-1247.00	kJ/mol	Joback Method
hfus	35.21	kJ/mol	Joback Method
hvap	69.58	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	3.162		Crippen Method
mvol	224.520	ml/mol	McGowan Method
pc	1765.41	kPa	Joback Method
rinpol	1841.00		NIST Webbook
rinpol	1841.00		NIST Webbook
tb	752.54	K	Joback Method
tc	946.57	K	Joback Method
tf	459.80	K	Joback Method
vc	0.881	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	654.74	J/molxK	752.54	Joback Method
cpg	667.67	J/molxK	784.88	Joback Method
cpg	679.72	J/molxK	817.22	Joback Method
cpg	690.91	J/molxK	849.55	Joback Method
cpg	701.29	J/molxK	881.89	Joback Method
cpg	710.89	J/molxK	914.23	Joback Method
cpg	719.75	J/molxK	946.57	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348418&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348418&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinpola:</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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