

# D-Alanine, N-(5-fluoro-2-trifluoromethylbenzoyl)-, dodecyl ester

InChI: InChI=1S/C23H33F4NO3/c1-3-4-5-6-7-8-9-10-11-12-15-31-22(30)17(2)28-21(29)19-16-1  
InChIKey: LADDTHSNHBCFFV-UHFFFAOYSA-N

Formula: C23H33F4NO3

SMILES: CCCCCCCCCCOC(=O)C(C)NC(=O)c1cc(F)ccc1C(F)(F)F

Mol. weight [g/mol]: 447.51

## Physical Properties

Property code	Value	Unit	Source
gf	-816.36	kJ/mol	Joback Method
hf	-1406.84	kJ/mol	Joback Method
hfus	59.46	kJ/mol	Joback Method
hvap	87.78	kJ/mol	Joback Method
log10ws	-8.09		Crippen Method
logp	6.427		Crippen Method
mvol	337.240	ml/mol	McGowan Method
pc	1003.98	kPa	Joback Method
rinpol	2640.00		NIST Webbook
rinpol	2640.00		NIST Webbook
tb	936.02	K	Joback Method
tc	1146.12	K	Joback Method
tf	564.96	K	Joback Method
vc	1.335	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1117.18	J/molxK	936.02	Joback Method
cpg	1132.91	J/molxK	971.04	Joback Method
cpg	1147.47	J/molxK	1006.05	Joback Method
cpg	1160.92	J/molxK	1041.07	Joback Method
cpg	1173.33	J/molxK	1076.09	Joback Method
cpg	1184.77	J/molxK	1111.10	Joback Method
cpg	1195.31	J/molxK	1146.12	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348440&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348440&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.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>

# 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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