

D-Alanine, N-(2,4-difluorobenzoyl)-, ethyl ester

Inchi:	InChI=1S/C12H13F2NO3/c1-3-18-12(17)7(2)15-11(16)9-5-4-8(13)6-10(9)14/h4-7H,3H2,
InchiKey:	SPWLYEZCDHNCAK-UHFFFAOYSA-N
Formula:	C12H13F2NO3
SMILES:	CCOC(=O)C(C)NC(=O)c1ccc(F)cc1F
Mol. weight [g/mol]:	257.23

Physical Properties

Property code	Value	Unit	Source
gf	-522.20	kJ/mol	Joback Method
hf	-778.83	kJ/mol	Joback Method
hfus	32.22	kJ/mol	Joback Method
hvap	66.22	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	1.646		Crippen Method
mcvol	178.710	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
rinpol	1687.00		NIST Webbook
rinpol	1687.00		NIST Webbook
tb	689.03	K	Joback Method
tc	890.27	K	Joback Method
tf	437.39	K	Joback Method
vc	0.695	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.36	J/molxK	689.03	Joback Method
cpg	489.54	J/molxK	722.57	Joback Method
cpg	500.94	J/molxK	756.11	Joback Method
cpg	511.59	J/molxK	789.65	Joback Method
cpg	521.50	J/molxK	823.19	Joback Method
cpg	530.67	J/molxK	856.73	Joback Method
cpg	539.12	J/molxK	890.27	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U348456&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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
hvap:	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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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