

D-Alanine, N-(3-chloro-2-fluorobenzoyl)-, isobutyl ester

Inchi:	InChI=1S/C14H17ClFNO3/c1-8(2)7-20-14(19)9(3)17-13(18)10-5-4-6-11(15)12(10)16/h4-
InchiKey:	FAQBVVBADVRJR-UHFFFAOYSA-N
Formula:	C14H17ClFNO3
SMILES:	CC(C)COC(=O)C(C)NC(=O)c1cccc(Cl)c1F
Mol. weight [g/mol]:	301.74

Physical Properties

Property code	Value	Unit	Source
gf	-324.92	kJ/mol	Joback Method
hf	-645.02	kJ/mol	Joback Method
hfus	34.99	kJ/mol	Joback Method
hvap	75.49	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	2.797		Crippen Method
mcvol	217.360	ml/mol	McGowan Method
pc	2056.76	kPa	Joback Method
rinpol	2078.00		NIST Webbook
tb	772.51	K	Joback Method
tc	983.54	K	Joback Method
tf	474.26	K	Joback Method
vc	0.832	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	600.11	J/molxK	772.51	Joback Method
cpg	612.90	J/molxK	807.68	Joback Method
cpg	624.76	J/molxK	842.85	Joback Method
cpg	635.70	J/molxK	878.02	Joback Method
cpg	645.74	J/molxK	913.19	Joback Method
cpg	654.91	J/molxK	948.36	Joback Method
cpg	663.23	J/molxK	983.54	Joback Method

Sources

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=U348335&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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