

DL-Alanine, N-methyl-N-decyloxycarbonyl-, isobutyl ester

Inchi:	InChI=1S/C19H37NO4/c1-6-7-8-9-10-11-12-13-14-23-19(22)20(5)17(4)18(21)24-15-16(2)
InchiKey:	JIFXOUVBQWIJGD-UHFFFAOYSA-N
Formula:	C19H37NO4
SMILES:	CCCCCCCCCOC(=O)N(C)C(C)C(=O)OCC(C)C
Mol. weight [g/mol]:	343.50

Physical Properties

Property code	Value	Unit	Source
gf	-252.84	kJ/mol	Joback Method
hf	-868.12	kJ/mol	Joback Method
hfus	46.52	kJ/mol	Joback Method
hvap	77.47	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	4.783		Crippen Method
mvol	303.430	ml/mol	McGowan Method
pc	1160.08	kPa	Joback Method
rinpol	2178.00		NIST Webbook
rinpol	2178.00		NIST Webbook
tb	798.26	K	Joback Method
tc	982.17	K	Joback Method
tf	450.68	K	Joback Method
vc	1.153	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	952.86	J/mol×K	798.26	Joback Method
cpg	971.04	J/mol×K	828.91	Joback Method
cpg	988.16	J/mol×K	859.56	Joback Method
cpg	1004.24	J/mol×K	890.22	Joback Method
cpg	1019.32	J/mol×K	920.87	Joback Method
cpg	1033.40	J/mol×K	951.52	Joback Method
cpg	1046.51	J/mol×K	982.17	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392673&Units=SI

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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