

«gamma»-Aminobutyric acid, N-isobutoxycarbonyl-, pentyl ester

Other names: .gama.-Aminobutyric acid, N-isobutoxycarbonyl-, pentyl ester

Inchi: InChI=1S/C14H27NO4/c1-4-5-6-10-18-13(16)8-7-9-15-14(17)19-11-12(2)3/h12H,4-11H2

InchiKey: UFZZLPPOCYVJJOQ-UHFFFAOYSA-N

Formula: C14H27NO4

SMILES: CCCCCOC(=O)CCNC(=O)OCC(C)C

Mol. weight [g/mol]: 273.37

Physical Properties

Property code	Value	Unit	Source
gf	-313.89	kJ/mol	Joback Method
hf	-773.70	kJ/mol	Joback Method
hfus	39.17	kJ/mol	Joback Method
hvap	71.12	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	2.882		Crippen Method
mvol	232.980	ml/mol	McGowan Method
pc	1667.33	kPa	Joback Method
rinpol	1963.00		NIST Webbook
tb	722.03	K	Joback Method
tc	903.69	K	Joback Method
tf	429.52	K	Joback Method
vc	0.896	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.45	J/molxK	722.03	Joback Method
cpg	696.99	J/molxK	752.31	Joback Method
cpg	711.72	J/molxK	782.58	Joback Method
cpg	725.63	J/molxK	812.86	Joback Method
cpg	738.75	J/molxK	843.13	Joback Method
cpg	751.06	J/molxK	873.41	Joback Method
cpg	762.59	J/molxK	903.69	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=U321048&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
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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