

DL-Valine, N-methyl-N-(but-3-yn-1-yloxy carbonyl)-, octyl

Inchi:
ester

InChI=1S/C19H33NO4/c1-6-8-10-11-12-13-15-23-18(21)17(16(3)4)20(5)19(22)24-14-9-7

InchiKey:

NIGAWKNZTLJVER-UHFFFAOYSA-N

Formula:

C19H33NO4

SMILES:

C#CCCOC(=O)N(C)C(C(=O)OCCCCCCCC)C(C)C

Mol. weight [g/mol]:

339.47

Physical Properties

Property code	Value	Unit	Source
gf	-29.77	kJ/mol	Joback Method
hf	-576.22	kJ/mol	Joback Method
hfus	49.49	kJ/mol	Joback Method
hvap	77.33	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.006		Crippen Method
mcvol	294.830	ml/mol	McGowan Method
pc	1286.51	kPa	Joback Method
rinpol	2143.00		NIST Webbook
rinpol	2143.00		NIST Webbook
tb	788.38	K	Joback Method
tc	975.30	K	Joback Method
tf	497.65	K	Joback Method
vc	1.115	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	898.04	J/molxK	788.38	Joback Method
cpg	915.25	J/molxK	819.53	Joback Method
cpg	931.46	J/molxK	850.69	Joback Method
cpg	946.68	J/molxK	881.84	Joback Method
cpg	960.96	J/molxK	913.00	Joback Method
cpg	974.31	J/molxK	944.15	Joback Method
cpg	986.77	J/molxK	975.30	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=U392934&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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