

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

Inchi:
ester

InChI=1S/C21H37NO4/c1-6-8-10-11-12-13-14-15-17-25-20(23)19(18(3)4)22(5)21(24)26

InchiKey:

ZUKNCUFUOADQOB-UHFFFAOYSA-N

Formula:

C21H37NO4

SMILES:

C#CCCCOC(=O)N(C)C(C(=O)OCCCCCCCCC)C(C)C

Mol. weight [g/mol]:

367.52

Physical Properties

Property code	Value	Unit	Source
gf	-12.93	kJ/mol	Joback Method
hf	-617.50	kJ/mol	Joback Method
hfus	54.67	kJ/mol	Joback Method
hvap	81.78	kJ/mol	Joback Method
log10ws	-5.55		Crippen Method
logp	4.787		Crippen Method
mvol	323.010	ml/mol	McGowan Method
pc	1126.08	kPa	Joback Method
rinpol	2341.00		NIST Webbook
rinpol	2341.00		NIST Webbook
tb	834.14	K	Joback Method
tc	1024.91	K	Joback Method
tf	520.19	K	Joback Method
vc	1.228	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1017.75	J/molxK	834.14	Joback Method
cpg	1035.61	J/molxK	865.93	Joback Method
cpg	1052.37	J/molxK	897.73	Joback Method
cpg	1068.06	J/molxK	929.52	Joback Method
cpg	1082.72	J/molxK	961.32	Joback Method
cpg	1096.37	J/molxK	993.11	Joback Method
cpg	1109.06	J/molxK	1024.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392936&Units=SI
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

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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