

L-Norvaline, N-(but-2-yn-1-yloxycarbonyl)-, heptyl ester

Inchi:	InChI=1S/C17H29NO4/c1-4-7-9-10-11-14-21-16(19)15(12-6-3)18-17(20)22-13-8-5-2/h15
InchiKey:	ZIVBYWDOSCWFRS-OAHLLOKOSA-N
Formula:	C17H29NO4
SMILES:	CC#CCOC(=O)NC(CCC)C(=O)OCCCCCCC
Mol. weight [g/mol]:	311.42

Physical Properties

Property code	Value	Unit	Source
gf	-85.83	kJ/mol	Joback Method
hf	-563.32	kJ/mol	Joback Method
hfus	50.06	kJ/mol	Joback Method
hvap	79.95	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	3.418		Crippen Method
mcvol	266.650	ml/mol	McGowan Method
pc	1505.81	kPa	Joback Method
rinpol	2199.00		NIST Webbook
rinpol	2199.00		NIST Webbook
tb	799.67	K	Joback Method
tc	993.90	K	Joback Method
tf	569.43	K	Joback Method
vc	1.026	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	804.68	J/mol×K	799.67	Joback Method
cpg	820.62	J/mol×K	832.04	Joback Method
cpg	835.57	J/mol×K	864.41	Joback Method
cpg	849.55	J/mol×K	896.79	Joback Method
cpg	862.56	J/mol×K	929.16	Joback Method
cpg	874.62	J/mol×K	961.53	Joback Method
cpg	885.73	J/mol×K	993.90	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=U392864&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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