

I-Norvaline, n-butoxycarbonyl-, octadecyl ester

Inchi: InChI=1S/C28H55NO4/c1-4-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-25-32-27(30)28-31-33-34
InchiKey: XWXWNUJKLZFDGT-UHFFFAOYSA-N
Formula: C28H55NO4
SMILES: CCCCCCCCCCCCCCCCCCOC(=O)C(CCC)NC(=O)OCCCC
Mol. weight [g/mol]: 469.74

Physical Properties

Property code	Value	Unit	Source
gf	-196.01	kJ/mol	Joback Method
hf	-1062.66	kJ/mol	Joback Method
hfus	75.43	kJ/mol	Joback Method
hvap	102.28	kJ/mol	Joback Method
log10ws	-9.55		Crippen Method
logp	8.486		Crippen Method
mcvol	430.240	ml/mol	McGowan Method
pc	695.08	kPa	Joback Method
tb	1042.35	K	Joback Method
tc	1303.56	K	Joback Method
tf	587.30	K	Joback Method
vc	1.681	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1540.25	J/mol×K	1042.35	Joback Method
cpg	1562.39	J/mol×K	1085.88	Joback Method
cpg	1582.15	J/mol×K	1129.42	Joback Method
cpg	1599.64	J/mol×K	1172.95	Joback Method
cpg	1614.96	J/mol×K	1216.49	Joback Method
cpg	1628.21	J/mol×K	1260.02	Joback Method
cpg	1639.49	J/mol×K	1303.56	Joback Method

Sources

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=U320784&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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