

L-Valine, N-(3-bromobenzoyl)-, pentadecyl ester

Inchi:	InChI=1S/C27H44BrNO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-20-32-27(31)25(22(2)3)2
InchiKey:	GYPIFIWVOUPVMD-UHFFFAOYSA-N
Formula:	C27H44BrNO3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(NC(=O)c1cccc(Br)c1)C(C)C
Mol. weight [g/mol]:	510.55

Physical Properties

Property code	Value	Unit	Source
gf	15.23	kJ/mol	Joback Method
hf	-663.69	kJ/mol	Joback Method
hfus	67.06	kJ/mol	Joback Method
hvap	106.63	kJ/mol	Joback Method
log10ws	-9.67		Crippen Method
logp	7.838		Crippen Method
mvol	404.020	ml/mol	McGowan Method
pc	925.55	kPa	Joback Method
rinpol	3470.00		NIST Webbook
tb	1094.43	K	Joback Method
tc	1344.73	K	Joback Method
tf	637.54	K	Joback Method
vc	1.554	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1377.60	J/mol×K	1094.43	Joback Method
cpg	1394.02	J/mol×K	1136.15	Joback Method
cpg	1408.95	J/mol×K	1177.86	Joback Method
cpg	1422.51	J/mol×K	1219.58	Joback Method
cpg	1434.83	J/mol×K	1261.29	Joback Method
cpg	1446.02	J/mol×K	1303.01	Joback Method
cpg	1456.22	J/mol×K	1344.73	Joback Method

Sources

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=U346696&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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