

L-Valine, N-(4-fluoro-2-trifluoromethylbenzoyl)-, heptadecyl ester

InChI: InChI=1S/C30H47F4NO3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-21-38-29(37)27(28)29
InChIKey: QHXAUWGGHEHTARQ-UHFFFAOYSA-N

Formula: C30H47F4NO3

SMILES: CCCCCCCCCCCCCCCCCOC(=O)C(NC(=O)c1ccc(F)cc1C(F)(F)F)C(C)C

Mol. weight [g/mol]: 545.69

Physical Properties

Property code	Value	Unit	Source
gf	-759.86	kJ/mol	Joback Method
hf	-1556.60	kJ/mol	Joback Method
hfus	74.06	kJ/mol	Joback Method
hvap	102.97	kJ/mol	Joback Method
log10ws	-10.77		Crippen Method
logp	9.014		Crippen Method
mvol	435.870	ml/mol	McGowan Method
pc	685.29	kPa	Joback Method
rinpol	3255.00		NIST Webbook
rinpol	3255.00		NIST Webbook
tb	1095.74	K	Joback Method
tc	1372.53	K	Joback Method
tf	628.85	K	Joback Method
vc	1.722	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1554.86	J/molxK	1095.74	Joback Method
cpg	1574.73	J/molxK	1141.87	Joback Method
cpg	1592.72	J/molxK	1188.00	Joback Method
cpg	1609.04	J/molxK	1234.13	Joback Method
cpg	1623.89	J/molxK	1280.26	Joback Method
cpg	1637.49	J/molxK	1326.40	Joback Method
cpg	1650.03	J/molxK	1372.53	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=U346491&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
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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