

L-Valine, N-(2-fluoro-5-trifluoromethylbenzoyl)-, hexyl

Inchi:
ester

InChI=1S/C19H25F4NO3/c1-4-5-6-7-10-27-18(26)16(12(2)3)24-17(25)14-11-13(19(21,22)23)

InchiKey:

OEBXDMZGLHTUKW-UHFFFAOYSA-N

Formula:

C19H25F4NO3

SMILES:

CCCCCOC(=O)C(NC(=O)c1cc(C(F)(F)F)ccc1F)C(C)C

Mol. weight [g/mol]:

391.40

Physical Properties

Property code	Value	Unit	Source
gf	-852.48	kJ/mol	Joback Method
hf	-1329.56	kJ/mol	Joback Method
hfus	45.57	kJ/mol	Joback Method
hvap	78.49	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	4.722		Crippen Method
mvol	280.880	ml/mol	McGowan Method
pc	1308.95	kPa	Joback Method
rinpol	2143.00		NIST Webbook
rinpol	2143.00		NIST Webbook
tb	844.06	K	Joback Method
tc	1039.97	K	Joback Method
tf	504.88	K	Joback Method
vc	1.105	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	879.77	J/molxK	844.06	Joback Method
cpg	894.02	J/molxK	876.71	Joback Method
cpg	907.27	J/molxK	909.36	Joback Method
cpg	919.57	J/molxK	942.01	Joback Method
cpg	930.96	J/molxK	974.66	Joback Method
cpg	941.49	J/molxK	1007.32	Joback Method
cpg	951.21	J/molxK	1039.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U346518&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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