

L-Valine, N-heptafluorobutyryl-, pentyl ester

Inchi: InChI=1S/C14H20F7NO3/c1-4-5-6-7-25-10(23)9(8(2)3)22-11(24)12(15,16)13(17,18)14(19)21
InchiKey: RVLMKKYQGZADTK-UHFFFAOYSA-N
Formula: C14H20F7NO3
SMILES: CCCCCOC(=O)C(NC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(C)C
Mol. weight [g/mol]: 383.30

Physical Properties

Property code	Value	Unit	Source
hfus	33.77	kJ/mol	Joback Method
log10ws	-5.12		Cheméo Relay (1.0)
logp	3.693		Crippen Method
mcvol	239.500	ml/mol	McGowan Method
rinpol	1423.00		NIST Webbook
rinpol	1423.00		NIST Webbook
tb	498.50	K	Cheméo Relay (1.0)
tf	306.98		Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	715.56	J/mol×K	684.37	Joback Method
cpg	729.16		712.12	Joback Method
cpg	741.94		739.87	Joback Method
cpg	753.94		767.61	Joback Method
cpg	765.22		795.36	Joback Method
cpg	775.80		823.11	Joback Method
cpg	785.74		850.86	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U320897&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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