

I-Leucine, n-heptafluorobutyryl-, octyl ester

Inchi: InChI=1S/C18H28F7NO3/c1-4-5-6-7-8-9-10-29-14(27)13(11-12(2)3)26-15(28)16(19,20)1
InchiKey: MGMOOJPVOJQGMU-UHFFFAOYSA-N
Formula: C18H28F7NO3
SMILES: CCCCCCOC(=O)C(CC(C)C)NC(=O)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]: 439.41

Physical Properties

Property code	Value	Unit	Source
gf	-1532.80	kJ/mol	Joback Method
hf	-2128.34	kJ/mol	Joback Method
hfus	44.13	kJ/mol	Joback Method
hvap	67.62	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	5.254		Crippen Method
mvol	295.860	ml/mol	McGowan Method
pc	1063.79	kPa	Joback Method
rinpol	1749.00		NIST Webbook
rinpol	1749.00		NIST Webbook
tb	775.89	K	Joback Method
tc	951.43	K	Joback Method
tf	448.76	K	Joback Method
vc	1.190	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	939.82	J/molxK	775.89	Joback Method
cpg	955.13	J/molxK	805.15	Joback Method
cpg	969.51	J/molxK	834.40	Joback Method
cpg	983.03	J/molxK	863.66	Joback Method
cpg	995.74	J/molxK	892.91	Joback Method
cpg	1007.71	J/molxK	922.17	Joback Method
cpg	1018.99	J/molxK	951.43	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U320997&Units=SI
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

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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