

I-Leucine, N-benzyloxycarbonyl-N-methyl-, isobutyl ester

Inchi:	InChI=1S/C19H29NO4/c1-14(2)11-17(18(21)23-12-15(3)4)20(5)19(22)24-13-16-9-7-6-8-
InchiKey:	DGKZHIXHVKODBP-UHFFFAOYSA-N
Formula:	C19H29NO4
SMILES:	CC(C)COC(=O)C(CC(C)C)N(C)C(=O)OCc1ccccc1
Mol. weight [g/mol]:	335.44

Physical Properties

Property code	Value	Unit	Source
gf	-142.87	kJ/mol	Joback Method
hf	-636.87	kJ/mol	Joback Method
hfus	37.03	kJ/mol	Joback Method
hvap	79.36	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	3.869		Crippen Method
mcvol	279.670	ml/mol	McGowan Method
pc	1482.71	kPa	Joback Method
rinpol	2157.00		NIST Webbook
rinpol	2157.00		NIST Webbook
tb	824.50	K	Joback Method
tc	1028.88	K	Joback Method
tf	462.10	K	Joback Method
vc	1.040	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	863.34	J/molxK	824.50	Joback Method
cpg	879.82	J/molxK	858.56	Joback Method
cpg	895.09	J/molxK	892.63	Joback Method
cpg	909.19	J/molxK	926.69	Joback Method
cpg	922.15	J/molxK	960.75	Joback Method
cpg	934.00	J/molxK	994.82	Joback Method
cpg	944.79	J/molxK	1028.88	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=U322036&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
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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