

# I-Leucine, N-(2,3,4-trifluorobenzoyl)-, methyl ester

Inchi:	InChI=1S/C14H16F3NO3/c1-7(2)6-10(14(20)21-3)18-13(19)8-4-5-9(15)12(17)11(8)16/h4
InchiKey:	BAQHQMFIWKBOKW-UHFFFAOYSA-N
Formula:	C14H16F3NO3
SMILES:	COC(=O)C(CC(C)C)NC(=O)c1ccc(F)c(F)c1F
Mol. weight [g/mol]:	303.28

## Physical Properties

Property code	Value	Unit	Source
gf	-712.24	kJ/mol	Joback Method
hf	-1032.97	kJ/mol	Joback Method
hfus	36.57	kJ/mol	Joback Method
hvap	70.13	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	2.421		Crippen Method
mcvol	208.660	ml/mol	McGowan Method
pc	1935.54	kPa	Joback Method
rinqol	1745.00		NIST Webbook
tb	738.60	K	Joback Method
tc	933.25	K	Joback Method
tf	458.04	K	Joback Method
vc	0.819	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.59	J/mol×K	738.60	Joback Method
cpg	602.30	J/mol×K	771.04	Joback Method
cpg	614.21	J/mol×K	803.48	Joback Method
cpg	625.31	J/mol×K	835.92	Joback Method
cpg	635.63	J/mol×K	868.37	Joback Method
cpg	645.18	J/mol×K	900.81	Joback Method
cpg	653.95	J/mol×K	933.25	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U299630&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299630&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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