

L-Valine, N-(2-trifluoromethylbenzoyl)-, methyl ester

Inchi:	InChI=1S/C14H16F3NO3/c1-8(2)11(13(20)21-3)18-12(19)9-6-4-5-7-10(9)14(15,16)17/h4
InchiKey:	REAFSGAZPGLZFK-UHFFFAOYSA-N
Formula:	C14H16F3NO3
SMILES:	<chem>COC(=O)C(NC(=O)c1ccccc1C(F)(F)F)C(C)C</chem>
Mol. weight [g/mol]:	303.28

Physical Properties

Property code	Value	Unit	Source
hfus	29.93	kJ/mol	Joback Method
log10ws	-3.58		Cheméo Relay (1.0)
logp	2.633		Crippen Method
mcvol	208.660	ml/mol	McGowan Method
rinpol	1731.00		NIST Webbook
rinpol	1731.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	594.19	J/mol×K	725.41	Joback Method
cpg	607.38		758.90	Joback Method
cpg	619.63		792.40	Joback Method
cpg	630.99		825.89	Joback Method
cpg	641.50		859.39	Joback Method
cpg	651.19		892.88	Joback Method
cpg	660.12		926.38	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U299685&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

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
rinpol:	Non-polar retention indices

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