

# Valine-glutamine, N(«alpha»,«epsilon»)-trifluoroacetyl-N-O-permeth derivative

InChI: InChI=1S/C18H25F6N3O6/c1-9(2)12(27(5)16(32)18(22,23)24)13(29)25(3)10(14(30)33-6  
InChIKey: OPUPPVHWLAWWRZ-UHFFFAOYSA-N  
Formula: C18H25F6N3O6  
SMILES: COC(=O)C(CCC(=O)N(C)C(=O)C(F)(F)F)N(C)C(=O)C(C(C)C)N(C)C(=O)C(F)(F)F  
Mol. weight [g/mol]: 493.40

## Physical Properties

Property code	Value	Unit	Source
gf	-1487.08	kJ/mol	Joback Method
hf	-2117.38	kJ/mol	Joback Method
hfus	53.70	kJ/mol	Joback Method
hvap	89.27	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	1.359		Crippen Method
mcvol	318.760	ml/mol	McGowan Method
pc	1220.85	kPa	Joback Method
rinpol	2152.00		NIST Webbook
rinpol	2214.00		NIST Webbook
rinpol	2152.00		NIST Webbook
tb	928.17	K	Joback Method
tc	1137.33	K	Joback Method
tf	625.29	K	Joback Method
vc	1.214	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1047.94	J/molxK	928.17	Joback Method
cpg	1060.45	J/molxK	963.03	Joback Method
cpg	1071.95	J/molxK	997.89	Joback Method
cpg	1082.56	J/molxK	1032.75	Joback Method
cpg	1092.38	J/molxK	1067.61	Joback Method
cpg	1101.49	J/molxK	1102.47	Joback Method
cpg	1110.00	J/molxK	1137.33	Joback Method

# Sources

<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=R248827&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R248827&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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>h vap:</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>r in pol:</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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