

# 3-phenylpropionyl glycine, PFP-TFE

<b>Inchi:</b>	InChI=1S/C16H13F8NO4/c17-14(18,19)9-29-12(27)8-25(13(28)15(20,21)16(22,23)24)11
<b>InchiKey:</b>	VZWHUPBRNBKZGR-UHFFFAOYSA-N
<b>Formula:</b>	C16H13F8NO4
<b>SMILES:</b>	O=C(CN(C(=O)CCc1ccccc1)C(=O)C(F)(F)C(F)(F)F)OCC(F)(F)F
<b>Mol. weight [g/mol]:</b>	435.27

## Physical Properties

Property code	Value	Unit	Source
gf	-1734.69	kJ/mol	Joback Method
hf	-2134.60	kJ/mol	Joback Method
hfus	42.64	kJ/mol	Joback Method
hvap	67.75	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.278		Crippen Method
mvol	247.260	ml/mol	McGowan Method
pc	1530.66	kPa	Joback Method
rinpol	1598.00		NIST Webbook
rinpol	1598.00		NIST Webbook
tb	773.10	K	Joback Method
tc	957.07	K	Joback Method
tf	512.97	K	Joback Method
vc	0.989	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	746.27	J/mol×K	773.10	Joback Method
cpg	757.31	J/mol×K	803.76	Joback Method
cpg	767.50	J/mol×K	834.42	Joback Method
cpg	776.90	J/mol×K	865.08	Joback Method
cpg	785.60	J/mol×K	895.74	Joback Method
cpg	793.65	J/mol×K	926.41	Joback Method
cpg	801.14	J/mol×K	957.07	Joback Method

# Sources

<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=R321685&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R321685&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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