

# 2-Pentanol, pentafluoropropionate

<b>Inchi:</b>	InChI=1S/C8H11F5O2/c1-3-4-5(2)15-6(14)7(9,10)8(11,12)13/h5H,3-4H2,1-2H3
<b>InchiKey:</b>	RXIGZIPJRMHDNW-UHFFFAOYSA-N
<b>Formula:</b>	C8H11F5O2
<b>SMILES:</b>	CCCC(C)OC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	234.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1188.25	kJ/mol	Joback Method
hf	-1456.58	kJ/mol	Joback Method
hfus	16.31	kJ/mol	Joback Method
hvap	35.49	kJ/mol	Joback Method
log10ws	-3.12		Crippen Method
logp	2.916		Crippen Method
mcvol	139.870	ml/mol	McGowan Method
pc	2227.09	kPa	Joback Method
rinpola	757.30		NIST Webbook
tb	448.18	K	Joback Method
tc	605.31	K	Joback Method
tf	244.87	K	Joback Method
vc	0.570	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.14	J/mol×K	448.18	Joback Method
cpg	338.08	J/mol×K	474.37	Joback Method
cpg	349.41	J/mol×K	500.56	Joback Method
cpg	360.17	J/mol×K	526.75	Joback Method
cpg	370.37	J/mol×K	552.94	Joback Method
cpg	380.03	J/mol×K	579.12	Joback Method
cpg	389.18	J/mol×K	605.31	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=U352313&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352313&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>
<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>

# 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>rinpol:</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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