

# 4-Penten-2-ol, pentafluoropropionate

<b>Inchi:</b>	InChI=1S/C8H9F5O2/c1-3-4-5(2)15-6(14)7(9,10)8(11,12)13/h3,5H,1,4H2,2H3
<b>InchiKey:</b>	MZTFZLPGJBHCQE-UHFFFAOYSA-N
<b>Formula:</b>	C8H9F5O2
<b>SMILES:</b>	C=CCC(C)OC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	232.15

## Physical Properties

Property code	Value	Unit	Source
gf	-1100.41	kJ/mol	Joback Method
hf	-1331.15	kJ/mol	Joback Method
hfus	15.03	kJ/mol	Joback Method
hvap	34.82	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.692		Crippen Method
mcvol	135.570	ml/mol	McGowan Method
pc	2318.07	kPa	Joback Method
rinpola	752.70		NIST Webbook
tb	444.86	K	Joback Method
tc	604.87	K	Joback Method
tf	243.11	K	Joback Method
vc	0.550	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.68	J/mol×K	444.86	Joback Method
cpg	321.11	J/mol×K	471.53	Joback Method
cpg	331.92	J/mol×K	498.20	Joback Method
cpg	342.13	J/mol×K	524.86	Joback Method
cpg	351.76	J/mol×K	551.53	Joback Method
cpg	360.84	J/mol×K	578.20	Joback Method
cpg	369.40	J/mol×K	604.87	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=U352317&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352317&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.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>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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