

# cis-2-Penten-1-ol, heptafluorobutyrate

<b>Inchi:</b>	InChI=1S/C9H9F7O2/c1-2-3-4-5-18-6(17)7(10,11)8(12,13)9(14,15)16/h3-4H,2,5H2,1H3/
<b>InchiKey:</b>	FSEMQZHOLDNDZ-ARJAWSKDSA-N
<b>Formula:</b>	C9H9F7O2
<b>SMILES:</b>	CCC=CCOC(=O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	282.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1483.95	kJ/mol	Joback Method
hf	-1755.69	kJ/mol	Joback Method
hfus	21.37	kJ/mol	Joback Method
hvap	35.14	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	3.329		Crippen Method
mvol	153.200	ml/mol	McGowan Method
pc	1989.43	kPa	Joback Method
rinpol	832.20		NIST Webbook
rinpol	832.20		NIST Webbook
tb	470.97	K	Joback Method
tc	625.29	K	Joback Method
tf	269.66	K	Joback Method
vc	0.636	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.20	J/molxK	470.97	Joback Method
cpg	384.19	J/molxK	496.69	Joback Method
cpg	395.46	J/molxK	522.41	Joback Method
cpg	406.02	J/molxK	548.13	Joback Method
cpg	415.93	J/molxK	573.85	Joback Method
cpg	425.21	J/molxK	599.57	Joback Method
cpg	433.90	J/molxK	625.29	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=U352709&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352709&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

Latest version available from:

<https://www.cheméo.com/cid/13-342-7/cis-2-Penten-1-ol-heptafluorobutyrate.pdf>

Generated by Cheméo on 2024-12-13 05:29:32.465402897 +0000 UTC m=+8648635.102372145.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.