

# 3-Heptanol, pentafluoropropionate

<b>Inchi:</b>	InChI=1S/C10H15F5O2/c1-3-5-6-7(4-2)17-8(16)9(11,12)10(13,14)15/h7H,3-6H2,1-2H3
<b>InchiKey:</b>	HECFNHLGZSYGPY-UHFFFAOYSA-N
<b>Formula:</b>	C10H15F5O2
<b>SMILES:</b>	CCCCC(CC)OC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	262.22

## Physical Properties

Property code	Value	Unit	Source
gf	-1171.41	kJ/mol	Joback Method
hf	-1497.86	kJ/mol	Joback Method
hfus	21.49	kJ/mol	Joback Method
hvap	39.95	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.696		Crippen Method
mcvol	168.050	ml/mol	McGowan Method
pc	1872.41	kPa	Joback Method
rinpol	904.00		NIST Webbook
rinpol	904.00		NIST Webbook
tb	493.94	K	Joback Method
tc	650.03	K	Joback Method
tf	267.41	K	Joback Method
vc	0.681	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	414.96	J/molxK	493.94	Joback Method
cpg	428.34	J/molxK	519.95	Joback Method
cpg	441.07	J/molxK	545.97	Joback Method
cpg	453.17	J/molxK	571.98	Joback Method
cpg	464.66	J/molxK	598.00	Joback Method
cpg	475.56	J/molxK	624.01	Joback Method
cpg	485.90	J/molxK	650.03	Joback Method

# Sources

<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=U376268&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376268&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>

# 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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