

# 9-Decen-1-ol, pentafluoropropionate

<b>Inchi:</b>	InChI=1S/C13H19F5O2/c1-2-3-4-5-6-7-8-9-10-20-11(19)12(14,15)13(16,17)18/h2H,1,3-12
<b>InchiKey:</b>	OCXPZJAQWPSRBU-UHFFFAOYSA-N
<b>Formula:</b>	C13H19F5O2
<b>SMILES:</b>	C=CCCCCCCCOC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	302.28

## Physical Properties

Property code	Value	Unit	Source
gf	-1055.87	kJ/mol	Joback Method
hf	-1429.07	kJ/mol	Joback Method
hfus	31.50	kJ/mol	Joback Method
hvap	46.34	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	4.644		Crippen Method
mvol	206.020	ml/mol	McGowan Method
pc	1519.94	kPa	Joback Method
rmpol	1265.80		NIST Webbook
rmpol	1265.80		NIST Webbook
tb	559.70	K	Joback Method
tc	714.66	K	Joback Method
tf	314.46	K	Joback Method
vc	0.837	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.60	J/molxK	559.70	Joback Method
cpg	554.93	J/molxK	585.53	Joback Method
cpg	568.55	J/molxK	611.35	Joback Method
cpg	581.50	J/molxK	637.18	Joback Method
cpg	593.80	J/molxK	663.01	Joback Method
cpg	605.47	J/molxK	688.83	Joback Method
cpg	616.54	J/molxK	714.66	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=U352656&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352656&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>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>rlnol:</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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