

# Ethyl pentafluoropropanoyl acetate

<b>Other names:</b>	Ethyl pentafluoropropionylacetate
<b>Inchi:</b>	InChI=1S/C7H7F5O3/c1-2-15-5(14)3-4(13)6(8,9)7(10,11)12/h2-3H2,1H3
<b>InchiKey:</b>	MWGSZQXKIYWSFS-UHFFFAOYSA-N
<b>Formula:</b>	C7H7F5O3
<b>SMILES:</b>	CCOC(=O)CC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	234.12
<b>CAS:</b>	663-35-4

## Physical Properties

Property code	Value	Unit	Source
gf	-1323.15	kJ/mol	Joback Method
hf	-1543.24	kJ/mol	Joback Method
hfus	18.84	kJ/mol	Joback Method
hvap	40.40	kJ/mol	Joback Method
log10ws	-1.87		Crippen Method
logp	1.706		Crippen Method
mcvol	127.350	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
tb	479.61	K	Joback Method
tc	644.20	K	Joback Method
tf	298.53	K	Joback Method
vc	0.525	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.81	J/molxK	479.61	Joback Method
cpg	313.67	J/molxK	507.04	Joback Method
cpg	322.96	J/molxK	534.47	Joback Method
cpg	331.72	J/molxK	561.91	Joback Method
cpg	339.95	J/molxK	589.34	Joback Method
cpg	347.68	J/molxK	616.77	Joback Method
cpg	354.94	J/molxK	644.20	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=C663354&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C663354&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>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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