

# 2-Ethyl-1-butanol, pentafluoropropionate

<b>Inchi:</b>	InChI=1S/C9H13F5O2/c1-3-6(4-2)5-16-7(15)8(10,11)9(12,13)14/h6H,3-5H2,1-2H3
<b>InchiKey:</b>	QAQCNYKZZWYKAB-UHFFFAOYSA-N
<b>Formula:</b>	C9H13F5O2
<b>SMILES:</b>	CCC(CC)COC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	248.19

## Physical Properties

Property code	Value	Unit	Source
gf	-1179.83	kJ/mol	Joback Method
hf	-1477.22	kJ/mol	Joback Method
hfus	18.90	kJ/mol	Joback Method
hvap	37.72	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.163		Crippen Method
mcvol	153.960	ml/mol	McGowan Method
pc	2038.23	kPa	Joback Method
rinpol	839.50		NIST Webbook
rinpol	839.50		NIST Webbook
tb	471.06	K	Joback Method
tc	627.66	K	Joback Method
tf	256.14	K	Joback Method
vc	0.625	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.62	J/mol×K	471.06	Joback Method
cpg	382.31	J/mol×K	497.16	Joback Method
cpg	394.39	J/mol×K	523.26	Joback Method
cpg	405.85	J/mol×K	549.36	Joback Method
cpg	416.73	J/mol×K	575.46	Joback Method
cpg	427.04	J/mol×K	601.56	Joback Method
cpg	436.81	J/mol×K	627.66	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=U352365&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352365&amp;Units=SI</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>rinp:</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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