

# 2-Ethylbutyric acid, pentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C12H11F5O2/c1-3-5(4-2)12(18)19-11-9(16)7(14)6(13)8(15)10(11)17/h5H,3-4H
<b>InchiKey:</b>	KSUBCWUYTDAQEG-UHFFFAOYSA-N
<b>Formula:</b>	C12H11F5O2
<b>SMILES:</b>	CCC(CC)C(=O)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	282.21

## Physical Properties

Property code	Value	Unit	Source
gf	-1095.99	kJ/mol	Joback Method
hf	-1342.46	kJ/mol	Joback Method
hfus	33.60	kJ/mol	Joback Method
hvap	52.58	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	3.724		Crippen Method
mcvol	172.470	ml/mol	McGowan Method
pc	1915.26	kPa	Joback Method
rinpol	1219.00		NIST Webbook
rinpol	1219.00		NIST Webbook
tb	597.74	K	Joback Method
tc	771.09	K	Joback Method
tf	374.13	K	Joback Method
vc	0.708	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.19	J/mol×K	597.74	Joback Method
cpg	444.56	J/mol×K	626.63	Joback Method
cpg	455.45	J/mol×K	655.52	Joback Method
cpg	465.86	J/mol×K	684.41	Joback Method
cpg	475.78	J/mol×K	713.31	Joback Method
cpg	485.23	J/mol×K	742.20	Joback Method
cpg	494.19	J/mol×K	771.09	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=U370228&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370228&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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