

# Pentadecafluorooctanoic acid, pentyl ester

<b>Inchi:</b>	InChI=1S/C13H11F15O2/c1-2-3-4-5-30-6(29)7(14,15)8(16,17)9(18,19)10(20,21)11(22,23)
<b>InchiKey:</b>	GVXBDIIUSCUEGI-UHFFFAOYSA-N
<b>Formula:</b>	C13H11F15O2
<b>SMILES:</b>	CCCCCOC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	484.20

## Physical Properties

Property code	Value	Unit	Source
gf	-3077.61	kJ/mol	Joback Method
hf	-3559.35	kJ/mol	Joback Method
hfus	26.52	kJ/mol	Joback Method
hvap	32.36	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	6.094		Crippen Method
mcvol	228.020	ml/mol	McGowan Method
pc	1139.80	kPa	Joback Method
rinpol	1015.00		NIST Webbook
rinpol	1015.00		NIST Webbook
tb	539.57	K	Joback Method
tc	673.38	K	Joback Method
tf	334.22	K	Joback Method
vc	0.981	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.68	J/mol×K	539.57	Joback Method
cpg	669.22	J/mol×K	561.87	Joback Method
cpg	681.87	J/mol×K	584.17	Joback Method
cpg	693.70	J/mol×K	606.48	Joback Method
cpg	704.75	J/mol×K	628.78	Joback Method
cpg	715.05	J/mol×K	651.08	Joback Method
cpg	724.66	J/mol×K	673.38	Joback Method

# Sources

<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>
<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=U406034&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406034&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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