

# Pentadecafluorooctanoic acid, undec-2-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C19H21F15O2/c1-2-3-4-5-6-7-8-9-10-11-36-12(35)13(20,21)14(22,23)15(24,25)
<b>InchiKey:</b>	KWQWVJBGFXFMEX-MDZDMXLPSA-N
<b>Formula:</b>	C19H21F15O2
<b>SMILES:</b>	CCCCCCCC=CCOC(=O)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>	566.34

## Physical Properties

Property code	Value	Unit	Source
gf	-2946.87	kJ/mol	Joback Method
hf	-3565.97	kJ/mol	Joback Method
hfus	42.26	kJ/mol	Joback Method
hvap	45.67	kJ/mol	Joback Method
log10ws	-9.04		Crippen Method
logp	8.211		Crippen Method
mcvol	308.260	ml/mol	McGowan Method
pc	822.90	kPa	Joback Method
rinsol	1543.00		NIST Webbook
tb	681.01	K	Joback Method
tc	834.30	K	Joback Method
tf	396.76	K	Joback Method
vc	1.296	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	957.24	J/mol×K	681.01	Joback Method
cpg	972.12	J/mol×K	706.56	Joback Method
cpg	986.02	J/mol×K	732.11	Joback Method
cpg	999.03	J/mol×K	757.65	Joback Method
cpg	1011.22	J/mol×K	783.20	Joback Method
cpg	1022.68	J/mol×K	808.75	Joback Method
cpg	1033.47	J/mol×K	834.30	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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=U406926&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406926&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>

# 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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