

# Pentadecafluorooctanoic acid, oct-3-en-2-yl ester

Inchi:	InChI=1S/C16H15F15O2/c1-3-4-5-6-7-8(2)33-9(32)10(17,18)11(19,20)12(21,22)13(23,24)14(25,26)27
InchiKey:	YTNCTWJYJGADOP-VOTSOKGWSA-N
Formula:	C16H15F15O2
SMILES:	CCCCC=CC(C)OC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	524.27

## Physical Properties

Property code	Value	Unit	Source
gf	-2974.57	kJ/mol	Joback Method
hf	-3509.33	kJ/mol	Joback Method
hfus	30.96	kJ/mol	Joback Method
hvap	38.61	kJ/mol	Joback Method
log10ws	-7.89		Crippen Method
logp	7.039		Crippen Method
mcvol	265.990	ml/mol	McGowan Method
pc	982.69	kPa	Joback Method
rinpol	1215.00		NIST Webbook
rinpol	1215.00		NIST Webbook
tb	611.93	K	Joback Method
tc	756.21	K	Joback Method
tf	347.95	K	Joback Method
vc	1.123	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	793.38	J/molxK	611.93	Joback Method
cpg	807.35	J/molxK	635.98	Joback Method
cpg	820.36	J/molxK	660.02	Joback Method
cpg	832.49	J/molxK	684.07	Joback Method
cpg	843.79	J/molxK	708.12	Joback Method
cpg	854.33	J/molxK	732.17	Joback Method
cpg	864.17	J/molxK	756.21	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=U406923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406923&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>hvap:</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>rinpola:</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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