

# Heptadecafluorononanoic acid, ethyl ester

<b>Inchi:</b>	InChI=1S/C11H5F17O2/c1-2-30-3(29)4(12,13)5(14,15)6(16,17)7(18,19)8(20,21)9(22,23)
<b>InchiKey:</b>	DRLDSHOYANTUND-UHFFFAOYSA-N
<b>Formula:</b>	C11H5F17O2
<b>SMILES:</b>	CCOC(=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)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	492.13

## Physical Properties

Property code	Value	Unit	Source
gf	-3481.23	kJ/mol	Joback Method
hf	-3919.04	kJ/mol	Joback Method
hfus	20.08	kJ/mol	Joback Method
hvap	24.98	kJ/mol	Joback Method
log10ws	-6.15		Crippen Method
logp	5.559		Crippen Method
mcvol	203.380	ml/mol	McGowan Method
pc	1238.96	kPa	Joback Method
rinsol	835.00		NIST Webbook
tb	489.12	K	Joback Method
tc	616.35	K	Joback Method
tf	315.28	K	Joback Method
vc	0.893	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.31	J/mol×K	489.12	Joback Method
cpg	588.28	J/mol×K	510.32	Joback Method
cpg	600.37	J/mol×K	531.53	Joback Method
cpg	611.61	J/mol×K	552.73	Joback Method
cpg	622.05	J/mol×K	573.94	Joback Method
cpg	631.73	J/mol×K	595.14	Joback Method
cpg	640.68	J/mol×K	616.35	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.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=U356016&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356016&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>h vap:</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>m cvol:</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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