

# Heptadecafluorononanoic acid, tridecyl ester

<b>Inchi:</b>	InChI=1S/C22H27F17O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-41-14(40)15(23,24)16(25,26)17(27,28)
<b>InchiKey:</b>	VNZWTUSLODRFTP-UHFFFAOYSA-N
<b>Formula:</b>	C22H27F17O2
<b>SMILES:</b>	CCCCCCCCCCCCOC(=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)C(F)(F)
<b>Mol. weight [g/mol]:</b>	646.42

## Physical Properties

Property code	Value	Unit	Source
gf	-3388.61	kJ/mol	Joback Method
hf	-4146.08	kJ/mol	Joback Method
hfus	48.57	kJ/mol	Joback Method
hvap	49.47	kJ/mol	Joback Method
log10ws	-10.75		Crippen Method
logp	9.850		Crippen Method
mvol	358.370	ml/mol	McGowan Method
pc	658.47	kPa	Joback Method
rinpol	1743.00		NIST Webbook
tb	740.80	K	Joback Method
tc	910.38	K	Joback Method
tf	439.25	K	Joback Method
vc	1.510	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1169.87	J/molxK	740.80	Joback Method
cpg	1186.94	J/molxK	769.06	Joback Method
cpg	1202.86	J/molxK	797.33	Joback Method
cpg	1217.75	J/molxK	825.59	Joback Method
cpg	1231.73	J/molxK	853.85	Joback Method
cpg	1244.90	J/molxK	882.12	Joback Method
cpg	1257.39	J/molxK	910.38	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=U356029&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356029&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

Latest version available from:

<https://www.chemeo.com/cid/62-162-3/Heptadecafluorononanoic-acid-tridecyl-ester.pdf>

Generated by Cheméo on 2024-04-18 18:35:33.48053103 +0000 UTC m=+15754582.401108342.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.