

# Heptacosyl trifluoroacetate

<b>Other names:</b>	Heptacosyl 2,2,2-trifluoroacetate 1-Heptacosanol, trifluoroacetate
<b>Inchi:</b>	InChI=1S/C29H55F3O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23
<b>InchiKey:</b>	VVPLBTYMPDZWEY-UHFFFAOYSA-N
<b>Formula:</b>	C29H55F3O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCOC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	492.74

## Physical Properties

Property code	Value	Unit	Source
gf	-622.21	kJ/mol	Joback Method
hf	-1483.77	kJ/mol	Joback Method
hfus	75.48	kJ/mol	Joback Method
hvap	85.56	kJ/mol	Joback Method
log10ws	-11.49		Crippen Method
logp	10.864		Crippen Method
mcvol	432.220	ml/mol	McGowan Method
pc	603.09	kPa	Joback Method
rinpol	2878.20		NIST Webbook
rinpol	2878.20		NIST Webbook
tb	933.79	K	Joback Method
tc	1162.98	K	Joback Method
tf	492.94	K	Joback Method
vc	1.726	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1502.36	J/molxK	933.79	Joback Method
cpg	1527.99	J/molxK	971.99	Joback Method
cpg	1551.87	J/molxK	1010.19	Joback Method
cpg	1574.13	J/molxK	1048.38	Joback Method
cpg	1594.87	J/molxK	1086.58	Joback Method
cpg	1614.23	J/molxK	1124.78	Joback Method

## Sources

<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=U351758&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U351758&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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