

# Eicosyl trifluoroacetate

<b>Other names:</b>	Eicosyl 2,2,2-trifluoroacetate 1-Eicosanol, trifluoroacetate
<b>Inchi:</b>	InChI=1S/C22H41F3O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-27-21(26)
<b>InchiKey:</b>	JELHWUPDJFSSDO-UHFFFAOYSA-N
<b>Formula:</b>	C22H41F3O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCOC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	394.55

## Physical Properties

Property code	Value	Unit	Source
gf	-681.15	kJ/mol	Joback Method
hf	-1339.29	kJ/mol	Joback Method
hfus	57.35	kJ/mol	Joback Method
hvap	69.98	kJ/mol	Joback Method
log10ws	-8.56		Crippen Method
logp	8.134		Crippen Method
mcvol	333.590	ml/mol	McGowan Method
pc	865.05	kPa	Joback Method
rinpol	2201.00		NIST Webbook
rinpol	2201.00		NIST Webbook
tb	773.63	K	Joback Method
tc	947.38	K	Joback Method
tf	414.05	K	Joback Method
vc	1.335	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1054.40	J/molxK	773.63	Joback Method
cpg	1074.22	J/molxK	802.59	Joback Method
cpg	1093.03	J/molxK	831.55	Joback Method
cpg	1110.87	J/molxK	860.51	Joback Method
cpg	1127.78	J/molxK	889.47	Joback Method
cpg	1143.81	J/molxK	918.43	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U351752&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U351752&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## 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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