

# 2-(2-(2-nonyloxy-ethoxy)-ethoxy)-ethanol, TFA

<b>Inchi:</b>	InChI=1S/C17H31F3O5/c1-2-3-4-5-6-7-8-9-22-10-11-23-12-13-24-14-15-25-16(21)17(18)
<b>InchiKey:</b>	CBKRDHQNYCUFDS-UHFFFAOYSA-N
<b>Formula:</b>	C17H31F3O5
<b>SMILES:</b>	CCCCCCCCCOCCOCCOCCOC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	372.42

## Physical Properties

Property code	Value	Unit	Source
gf	-1038.25	kJ/mol	Joback Method
hf	-1632.75	kJ/mol	Joback Method
hfus	47.96	kJ/mol	Joback Method
hvap	66.08	kJ/mol	Joback Method
log10ws	-3.73		Crippen Method
logp	3.892		Crippen Method
mcvol	280.750	ml/mol	McGowan Method
pc	1132.91	kPa	Joback Method
rinsol	1970.00		NIST Webbook
tb	726.49	K	Joback Method
tc	893.18	K	Joback Method
tf	424.39	K	Joback Method
vc	1.109	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	851.56	J/molxK	726.49	Joback Method
cpg	868.45	J/molxK	754.27	Joback Method
cpg	884.49	J/molxK	782.05	Joback Method
cpg	899.71	J/molxK	809.84	Joback Method
cpg	914.10	J/molxK	837.62	Joback Method
cpg	927.67	J/molxK	865.40	Joback Method
cpg	940.44	J/molxK	893.18	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R184342&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184342&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>mccvol:</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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