

# 2-(2-(2-(2-(2-(2-(2-nonyloxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy

**TFA**  
InchiKey:

InChI=1S/C25H47F3O9/c1-2-3-4-5-6-7-8-9-30-10-11-31-12-13-32-14-15-33-16-17-34-18

Formula:

C25H47F3O9

SMILES:

CCCCCCCCOCCOCCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F

Mol. weight [g/mol]:

548.63

## Physical Properties

Property code	Value	Unit	Source
gf	-1390.89	kJ/mol	Joback Method
hf	-2326.75	kJ/mol	Joback Method
hfus	73.43	kJ/mol	Joback Method
hvap	93.52	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.959		Crippen Method
mvol	416.950	ml/mol	McGowan Method
pc	689.98	kPa	Joback Method
rinpol	3025.30		NIST Webbook
rinpol	3025.30		NIST Webbook
tb	999.21	K	Joback Method
tc	1262.79	K	Joback Method
tf	603.47	K	Joback Method
vc	1.629	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1468.42	J/molxK	999.21	Joback Method
cpg	1488.24	J/molxK	1043.14	Joback Method
cpg	1504.67	J/molxK	1087.07	Joback Method
cpg	1517.69	J/molxK	1131.00	Joback Method
cpg	1527.24	J/molxK	1174.93	Joback Method
cpg	1533.30	J/molxK	1218.86	Joback Method
cpg	1535.82	J/molxK	1262.79	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=R184020&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184020&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>hvp:</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>rinp:</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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