

# 2-(2-(2-(2-(2-(2-(2-decyloxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy

**TFA**  
InchiKey:

InChI=1S/C26H49F3O9/c1-2-3-4-5-6-7-8-9-10-31-11-12-32-13-14-33-15-16-34-17-18-35

Formula:

C26H49F3O9

SMILES:

CCCCCCCCCOCCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F

Mol. weight [g/mol]:

562.66

## Physical Properties

Property code	Value	Unit	Source
gf	-1382.47	kJ/mol	Joback Method
hf	-2347.39	kJ/mol	Joback Method
hfus	76.02	kJ/mol	Joback Method
hvap	95.75	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	4.349		Crippen Method
mvol	431.040	ml/mol	McGowan Method
pc	656.45	kPa	Joback Method
rinpol	3223.10		NIST Webbook
rinpol	3223.10		NIST Webbook
tb	1022.09	K	Joback Method
tc	1302.24	K	Joback Method
tf	614.74	K	Joback Method
vc	1.685	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1531.23	J/mol×K	1022.09	Joback Method
cpg	1551.26	J/mol×K	1068.78	Joback Method
cpg	1567.37	J/mol×K	1115.47	Joback Method
cpg	1579.53	J/mol×K	1162.16	Joback Method
cpg	1587.69	J/mol×K	1208.85	Joback Method
cpg	1591.82	J/mol×K	1255.55	Joback Method
cpg	1591.88	J/mol×K	1302.24	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=R183998&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R183998&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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