

# 2-[2-(2-Isopentoxyethoxy)ethoxy]ethyl trifluoroacetate

<b>Inchi:</b>	InChI=1S/C13H23F3O5/c1-11(2)3-4-18-5-6-19-7-8-20-9-10-21-12(17)13(14,15)16/h11H,
<b>InchiKey:</b>	UCQNZHPFIAQFDQ-UHFFFAOYSA-N
<b>Formula:</b>	C13H23F3O5
<b>SMILES:</b>	CC(C)CCOCCOCCOCCOC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	316.31

## Physical Properties

Property code	Value	Unit	Source
gf	-1074.37	kJ/mol	Joback Method
hf	-1555.47	kJ/mol	Joback Method
hfus	34.08	kJ/mol	Joback Method
hvap	56.78	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	2.188		Crippen Method
mcvol	224.390	ml/mol	McGowan Method
pc	1503.48	kPa	Joback Method
rinpol	1548.00		NIST Webbook
tb	634.53	K	Joback Method
tc	796.36	K	Joback Method
tf	364.31	K	Joback Method
vc	0.878	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	628.24	J/molxK	634.53	Joback Method
cpg	643.15	J/molxK	661.50	Joback Method
cpg	657.43	J/molxK	688.47	Joback Method
cpg	671.06	J/molxK	715.45	Joback Method
cpg	684.07	J/molxK	742.42	Joback Method
cpg	696.43	J/molxK	769.39	Joback Method
cpg	708.16	J/molxK	796.36	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R188597&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R188597&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>
<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>rinpola:</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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