

# 2-(2-Butoxyethoxy)ethyl 2,2,2-trifluoroacetate

<b>Other names:</b>	Diethylene glycol butyl ether, trifluoroacetate 3,6-Dioxaodec-1-yl trifluoroacetate
<b>Inchi:</b>	InChI=1S/C10H17F3O4/c1-2-3-4-15-5-6-16-7-8-17-9(14)10(11,12)13/h2-8H2,1H3
<b>InchiKey:</b>	PITLYPONAMTONM-UHFFFAOYSA-N
<b>Formula:</b>	C10H17F3O4
<b>SMILES:</b>	CCCCOCCOCCOC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	258.23

## Physical Properties

Property code	Value	Unit	Source
gf	-992.19	kJ/mol	Joback Method
hf	-1356.05	kJ/mol	Joback Method
hfus	28.64	kJ/mol	Joback Method
hvap	48.08	kJ/mol	Joback Method
log10ws	-1.71		Crippen Method
logp	1.925		Crippen Method
mcvol	176.250	ml/mol	McGowan Method
pc	1920.30	kPa	Joback Method
rinpol	1199.60		NIST Webbook
rinpol	1221.80		NIST Webbook
rinpol	1199.60		NIST Webbook
rinpol	1221.80		NIST Webbook
tb	543.91	K	Joback Method
tc	703.03	K	Joback Method
tf	323.27	K	Joback Method
vc	0.699	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.05	J/mol×K	543.91	Joback Method
cpg	460.91	J/mol×K	570.43	Joback Method
cpg	473.28	J/mol×K	596.95	Joback Method
cpg	485.16	J/mol×K	623.47	Joback Method

cpg	496.54	J/mol×K	649.99	Joback Method
cpg	507.45	J/mol×K	676.51	Joback Method
cpg	517.87	J/mol×K	703.03	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=U351934&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U351934&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>

## 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>mvol:</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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