

# 2-Hydroxyethyl 2,2,2-trifluoroacetate

<b>Other names:</b>	Ethylene glycol, mono(trifluoroacetate)
<b>Inchi:</b>	InChI=1S/C4H5F3O3/c5-4(6,7)3(9)10-2-1-8/h8H,1-2H2
<b>InchiKey:</b>	MGECQCPJQHINMP-UHFFFAOYSA-N
<b>Formula:</b>	C4H5F3O3
<b>SMILES:</b>	O=C(OCCO)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	158.08

## Physical Properties

Property code	Value	Unit	Source
gf	-969.53	kJ/mol	Joback Method
hf	-1120.00	kJ/mol	Joback Method
hfus	14.82	kJ/mol	Joback Method
hvap	46.59	kJ/mol	Joback Method
log10ws	-0.29		Crippen Method
logp	0.084		Crippen Method
mvol	85.840	ml/mol	McGowan Method
pc	4005.77	kPa	Joback Method
rinpol	768.50		NIST Webbook
tb	453.97	K	Joback Method
tc	612.86	K	Joback Method
tf	272.01	K	Joback Method
vc	0.345	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	194.28	J/mol×K	453.97	Joback Method
cpg	200.62	J/mol×K	480.45	Joback Method
cpg	206.66	J/mol×K	506.93	Joback Method
cpg	212.42	J/mol×K	533.41	Joback Method
cpg	217.89	J/mol×K	559.90	Joback Method
cpg	223.08	J/mol×K	586.38	Joback Method
cpg	228.01	J/mol×K	612.86	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U351921&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U351921&amp;Units=SI</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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