

# Ethanolamine, N,O-bis(trifluoroacetyl)-

<b>Inchi:</b>	InChI=1S/C6H5F6NO3/c7-5(8,9)3(14)13-1-2-16-4(15)6(10,11)12/h1-2H2,(H,13,14)
<b>InchiKey:</b>	YDQHOULJYAFDRM-UHFFFAOYSA-N
<b>Formula:</b>	C6H5F6NO3
<b>SMILES:</b>	O=C(NCCOC(=O)C(F)(F)F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	253.10

## Physical Properties

Property code	Value	Unit	Source
gf	-1436.99	kJ/mol	Joback Method
hf	-1665.24	kJ/mol	Joback Method
hfus	24.43	kJ/mol	Joback Method
hvap	43.79	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	0.770		Crippen Method
mcvol	125.010	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
rinpola	945.00		NIST Webbook
tb	506.17	K	Joback Method
tc	667.73	K	Joback Method
tf	340.51	K	Joback Method
vc	0.522	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.43	J/mol×K	506.17	Joback Method
cpg	322.18	J/mol×K	533.10	Joback Method
cpg	330.40	J/mol×K	560.02	Joback Method
cpg	338.12	J/mol×K	586.95	Joback Method
cpg	345.35	J/mol×K	613.88	Joback Method
cpg	352.11	J/mol×K	640.80	Joback Method
cpg	358.42	J/mol×K	667.73	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U375585&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375585&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>
<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>mccvol:</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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