2-Ethoxyethanol, trifluoroacetate

Other names: 2-ethoxyethyl 2,2,2-trifluoroacetate
Inchi: InChI=1S/C6H9F3O3/c1-2-11-3-4-12-5(10)6(7,8)9/h2-4H2,1H3
InchiKey: VIINFFLJPQYOIZ-UHFFFAOYSA-N
Formula: C6H9F3O3
SMILES: CCOCCOC(=O)C(F)(F)F
Mol. weight [g/mol]: 186.13

Physical Properties

Property code	Value	Unit	Source
gf	-920.87	kJ/mol	Joback Method
hf	-1141.27	kJ/mol	Joback Method
hfus	17.10	kJ/mol	Joback Method
hvap	36.77	kJ/mol	Joback Method
log10ws	-0.95		Crippen Method
logp	1.128		Crippen Method
mcvol	114.020	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rinpol	772.80		NIST Webbook
tb	429.97	K	Joback Method
tc	591.64	K	Joback Method
tf	255.96	K	Joback Method
vc	0.457	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.35	J/mol×K	429.97	Joback Method
cpg	258.71	J/mol×K	456.91	Joback Method
cpg	267.73	J/mol×K	483.86	Joback Method
cpg	276.39	J/mol×K	510.80	Joback Method
cpg	284.72	J/mol×K	537.75	Joback Method
cpg	292.70	J/mol×K	564.69	Joback Method
cpg	300.35	J/mol×K	591.64	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351893&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume