2-(2-Ethoxyethoxy)ethyl 2,2,2-trifluoroacetate

Other names:	Diethylene glycol monoethyl ether, trifluoroacetate
	3,6-Dioxaoct-1-yl trifluoroacetate
Inchi:	InChI=1S/C8H13F3O4/c1-2-13-3-4-14-5-6-15-7(12)8(9,10)11/h2-6H2,1H3
InchiKey:	SZSPRIKEXQUPCA-UHFFFAOYSA-N
Formula:	C8H13F3O4
SMILES:	CCOCCOCCOC(=O)C(F)(F)F
Mol. weight [g/mol]:	230.18

Physical Properties

Property code	Value	Unit	Source
gf	-1009.03	kJ/mol	Joback Method
hf	-1314.77	kJ/mol	Joback Method
hfus	23.46	kJ/mol	Joback Method
hvap	43.63	kJ/mol	Joback Method
log10ws	-0.87		Crippen Method
logp	1.145		Crippen Method
mcvol	148.070	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
rinpol	1029.80		NIST Webbook
tb	498.15	K	Joback Method
tc	658.46	K	Joback Method
tf	300.73	K	Joback Method
vc	0.587	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.93	J/mol×K	498.15	Joback Method
cpg	367.14	J/mol×K	524.87	Joback Method
cpg	377.95	J/mol×K	551.59	Joback Method
cpg	388.36	J/mol×K	578.31	Joback Method
cpg	398.37	J/mol×K	605.02	Joback Method
cpg	407.97	J/mol×K	631.74	Joback Method
cpg	417.17	J/mol×K	658.46	Joback Method

Sources

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=U351928&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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