Carbonic acid, 2-methoxyethyl 3,5-difluophenyl ester

Inchi: InChI=1S/C10H10F2O4/c1-14-2-3-15-10(13)16-9-5-7(11)4-8(12)6-9/h4-6H,2-3H2,1H3
InchiKey: KMEJNIVAYBMZSV-UHFFFAOYSA-N
Formula: C10H10F2O4
SMILES: COCCOC(=O)Oc1cc(F)cc(F)c1
Mol. weight [g/mol]: 232.18

Physical Properties

Property code	Value	Unit	Source
gf	-707.07	kJ/mol	Joback Method
hf	-937.60	kJ/mol	Joback Method
hfus	26.24	kJ/mol	Joback Method
hvap	53.80	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.127		Crippen Method
mcvol	150.720	ml/mol	McGowan Method
pc	2616.41	kPa	Joback Method
rinpol	1379.00		NIST Webbook
tb	584.51	K	Joback Method
tc	776.19	K	Joback Method
tf	371.72	K	Joback Method
vc	0.584	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.63	J/mol×K	584.51	Joback Method
cpg	375.08	J/mol×K	616.46	Joback Method
cpg	386.04	J/mol×K	648.40	Joback Method
cpg	396.48	J/mol×K	680.35	Joback Method
cpg	406.39	J/mol×K	712.30	Joback Method
cpg	415.76	J/mol×K	744.24	Joback Method
cpg	424.57	J/mol×K	776.19	Joback Method

Sources

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=U357866&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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