Carbonic acid, 2-methoxyethyl 4-methoxyphenyl ester

Inchi: InChI=1S/C11H14O5/c1-13-7-8-15-11(12)16-10-5-3-9(14-2)4-6-10/h3-6H,7-8H2,1-2H3
InchiKey: NBTFXDVGIOQPEG-UHFFFAOYSA-N
Formula: C11H14O5
SMILES: COCCOC(=O)Oc1ccc(OC)cc1
Mol. weight [g/mol]: 226.23

Physical Properties

Property code	Value	Unit	Source
gf	-404.40	kJ/mol	Joback Method
hf	-686.77	kJ/mol	Joback Method
hfus	24.25	kJ/mol	Joback Method
hvap	59.40	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	1.857		Crippen Method
mcvol	167.140	ml/mol	McGowan Method
pc	2595.13	kPa	Joback Method
rinpol	1742.00		NIST Webbook
rinpol	1742.00		NIST Webbook
tb	626.29	K	Joback Method
tc	830.23	K	Joback Method
tf	391.52	K	Joback Method
vc	0.622	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.63	J/mol×K	626.29	Joback Method
cpg	434.15	J/mol×K	660.28	Joback Method
cpg	447.00	J/mol×K	694.27	Joback Method
cpg	459.15	J/mol×K	728.26	Joback Method
cpg	470.59	J/mol×K	762.25	Joback Method
cpg	481.28	J/mol×K	796.24	Joback Method
cpg	491.19	J/mol×K	830.23	Joback Method
dvisc	0.0007278	Pa×s	391.52	Joback Method

dvisc	0.0004509	Pa×s	430.65	Joback Method
dvisc	0.0003026	Pa×s	469.78	Joback Method
dvisc	0.0002159	Pa×s	508.90	Joback Method
dvisc	0.0001616	Pa×s	548.03	Joback Method
dvisc	0.0001258	Pa×s	587.16	Joback Method
dvisc	0.0001010	Pa×s	626.29	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=U357874&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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