Carbonic acid, 2-methoxyethyl phenyl ester

Inchi: InChI=1S/C10H12O4/c1-12-7-8-13-10(11)14-9-5-3-2-4-6-9/h2-6H,7-8H2,1H3
InchiKey: GSNDBZWPIPOOKL-UHFFFAOYSA-N
Formula: C10H12O4
SMILES: COCCOC(=O)Oc1ccccc1
Mol. weight [g/mol]: 196.20

Physical Properties

Property code	Value	Unit	Source
gf	-298.19	kJ/mol	Joback Method
hf	-522.44	kJ/mol	Joback Method
hfus	20.86	kJ/mol	Joback Method
hvap	54.11	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.848		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
rinpol	1472.00		NIST Webbook
rinpol	1472.00		NIST Webbook
tb	576.01	K	Joback Method
tc	784.23	K	Joback Method
tf	345.50	K	Joback Method
vc	0.547	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.45	J/mol×K	576.01	Joback Method
cpg	407.34	J/mol×K	749.52	Joback Method
cpg	396.92	J/mol×K	714.82	Joback Method
cpg	385.81	J/mol×K	680.12	Joback Method
cpg	374.02	J/mol×K	645.42	Joback Method
cpg	361.56	J/mol×K	610.71	Joback Method
cpg	417.06	J/mol×K	784.23	Joback Method
dvisc	0.0001433	Pa×s	576.01	Joback Method

dvisc	0.0001813	Pa×s	537.59	Joback Method
dvisc	0.0002379	Pa×s	499.17	Joback Method
dvisc	0.0003266	Pa×s	460.75	Joback Method
dvisc	0.0004751	Pa×s	422.34	Joback Method
dvisc	0.0007449	Pa×s	383.92	Joback Method
dvisc	0.0012907	Pa×s	345.50	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357868&Units=SI
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

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