Carbonic acid, ethyl 4-methoxyphenyl ester

Inchi: InChI=1S/C10H12O4/c1-3-13-10(11)14-9-6-4-8(12-2)5-7-9/h4-7H,3H2,1-2H3
InchiKey: GBSOFIMKLOZOHN-UHFFFAOYSA-N
Formula: C10H12O4
SMILES: CCOC(=O)Oc1ccc(OC)cc1
Mol. weight [g/mol]: 196.20

Physical Properties

Property code	Value	Unit	Source
gf	-307.82	kJ/mol	Joback Method
hf	-533.91	kJ/mol	Joback Method
hfus	20.47	kJ/mol	Joback Method
hvap	54.77	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	2.230		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	2921.84	kPa	Joback Method
rinpol	1505.00		NIST Webbook
tb	580.99	K	Joback Method
tc	790.21	K	Joback Method
tf	358.02	K	Joback Method
vc	0.547	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.86	J/mol×K	580.99	Joback Method
cpg	360.73	J/mol×K	615.86	Joback Method
cpg	372.99	J/mol×K	650.73	Joback Method
cpg	384.61	J/mol×K	685.60	Joback Method
cpg	395.59	J/mol×K	720.47	Joback Method
cpg	405.91	J/mol×K	755.34	Joback Method
cpg	415.54	J/mol×K	790.21	Joback Method
dvisc	0.0010140	Pa×s	358.02	Joback Method
dvisc	0.0006243	Pa×s	395.18	Joback Method

dvisc	0.0004178	Pa×s	432.34	Joback Method
dvisc	0.0002979	Pa×s	469.50	Joback Method
dvisc	0.0002233	Pa×s	506.67	Joback Method
dvisc	0.0001740	Pa×s	543.83	Joback Method
dvisc	0.0001401	Pa×s	580.99	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357919&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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