Carbonic acid, 2-chloroethyl 4-methoxyphenyl ester

Inchi: InChI=1S/C10H11ClO4/c1-13-8-2-4-9(5-3-8)15-10(12)14-7-6-11/h2-5H,6-7H2,1H3
InchiKey: PFYLWBGYOBTSRT-UHFFFAOYSA-N
Formula: C10H11ClO4
SMILES: COc1ccc(OC(=O)OCCCl)cc1
Mol. weight [g/mol]: 230.65

Physical Properties

Property code	Value	Unit	Source
gf	-319.75	kJ/mol	Joback Method
hf	-549.65	kJ/mol	Joback Method
hfus	24.67	kJ/mol	Joback Method
hvap	59.15	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.449		Crippen Method
mcvol	159.420	ml/mol	McGowan Method
pc	2808.38	kPa	Joback Method
rinpol	1751.00		NIST Webbook
tb	618.42	K	Joback Method
tc	831.50	K	Joback Method
tf	387.94	K	Joback Method
vc	0.597	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.06	J/mol×K	618.42	Joback Method
cpg	385.20	J/mol×K	653.93	Joback Method
cpg	396.67	J/mol×K	689.45	Joback Method
cpg	407.47	J/mol×K	724.96	Joback Method
cpg	417.57	J/mol×K	760.47	Joback Method
cpg	426.97	J/mol×K	795.98	Joback Method
cpg	435.64	J/mol×K	831.50	Joback Method
dvisc	0.0009281	Pa×s	387.94	Joback Method
dvisc	0.0005809	Pa×s	426.35	Joback Method

dvisc	0.0003928	Pa×s	464.77	Joback Method
dvisc	0.0002820	Pa×s	503.18	Joback Method
dvisc	0.0002122	Pa×s	541.59	Joback Method
dvisc	0.0001658	Pa×s	580.01	Joback Method
dvisc	0.0001336	Pa×s	618.42	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357887&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