

Carbonic acid, 2-methoxyethyl 4-chlorophenyl ester

Inchi:	InChI=1S/C10H11ClO4/c1-13-6-7-14-10(12)15-9-4-2-8(11)3-5-9/h2-5H,6-7H2,1H3
InchiKey:	CGBYDSNGGOMFOA-UHFFFAOYSA-N
Formula:	C10H11ClO4
SMILES:	COCCOC(=O)Oc1ccc(Cl)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	-2.46		Crippen Method
logp	2.502		Crippen Method
mcvol	159.420	ml/mol	McGowan Method
pc	2808.38	kPa	Joback Method
rinpola	1640.00		NIST Webbook
tb	618.42	K	Joback Method
tc	831.50	K	Joback Method
tf	387.94	K	Joback Method
vc	0.597	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.06	J/molxK	618.42	Joback Method
cpg	426.97	J/molxK	795.98	Joback Method
cpg	417.57	J/molxK	760.47	Joback Method
cpg	407.47	J/molxK	724.96	Joback Method
cpg	396.67	J/molxK	689.45	Joback Method
cpg	385.20	J/molxK	653.93	Joback Method
cpg	435.64	J/molxK	831.50	Joback Method
dvisc	0.0001336	Paxs	618.42	Joback Method
dvisc	0.0001658	Paxs	580.01	Joback Method

dvisc	0.0002122	Paxs	541.59	Joback Method
dvisc	0.0002820	Paxs	503.18	Joback Method
dvisc	0.0003928	Paxs	464.77	Joback Method
dvisc	0.0005809	Paxs	426.35	Joback Method
dvisc	0.0009281	Paxs	387.94	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357872&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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