Cyclobutanecarboxylic acid, 2-chlorophenyl ester

Inchi: InChI=1S/C11H11ClO2/c12-9-6-1-2-7-10(9)14-11(13)8-4-3-5-8/h1-2,6-8H,3-5H2
InchiKey: QQMAENAUZRPEMZ-UHFFFAOYSA-N
Formula: C11H11ClO2
SMILES: O=C(Oc1ccccc1Cl)C1CCC1
Mol. weight [g/mol]: 210.66

Physical Properties

Property code	Value	Unit	Source
gf	-52.68	kJ/mol	Joback Method
hf	-239.21	kJ/mol	Joback Method
hfus	20.92	kJ/mol	Joback Method
hvap	56.64	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.046		Crippen Method
mcvol	150.910	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
rinpol	1527.00		NIST Webbook
rinpol	1527.00		NIST Webbook
tb	607.47	K	Joback Method
tc	845.52	K	Joback Method
tf	369.17	K	Joback Method
vc	0.566	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	358.89	J/mol×K	607.47	Joback Method
cpg	373.56	J/mol×K	647.14	Joback Method
cpg	387.15	J/mol×K	686.82	Joback Method
cpg	399.72	J/mol×K	726.49	Joback Method
cpg	411.32	J/mol×K	766.17	Joback Method
cpg	421.99	J/mol×K	805.84	Joback Method
cpg	431.79	J/mol×K	845.52	Joback Method
dvisc	0.0018581	Pa×s	369.17	Joback Method

dvisc	0.0012308	Pa×s	408.89	Joback Method
dvisc	0.0008770	Pa×s	448.60	Joback Method
dvisc	0.0006603	Pa×s	488.32	Joback Method
dvisc	0.0005188	Pa×s	528.04	Joback Method
dvisc	0.0004216	Pa×s	567.75	Joback Method
dvisc	0.0003521	Pa×s	607.47	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U299073&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