4-(p-Chlorophenoxy)butyric acid

Other names:	«gamma»-(4-Chlorophenoxy)butyric acid
	Butanoic acid, 4-(4-chlorophenoxy)-
	Butyric acid, 4-(p-chlorophenoxy)-
	4-(4-Chlorophenoxy)butyric acid
	4-(4-CPB)
	4-CPB
	4-(4-Chlorophenoxy)butanoic acid
Inchi:	InChI=1S/C10H11ClO3/c11-8-3-5-9(6-4-8)14-7-1-2-10(12)13/h3-6H,1-2,7H2,(H,12,13)
InchiKey:	SIYAHZSHQIPQLY-UHFFFAOYSA-N
Formula:	C10H11ClO3
SMILES:	O=C(O)CCCOc1ccc(Cl)cc1
Mol. weight [g/mol]:	214.65
CAS:	3547-07-7

Physical Properties

Property code	Value	Unit	Source
gf	-246.57	kJ/mol	Joback Method
hf	-437.44	kJ/mol	Joback Method
hfus	26.38	kJ/mol	Joback Method
hvap	71.01	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.584		Crippen Method
mcvol	153.550	ml/mol	McGowan Method
pc	3224.64	kPa	Joback Method
tb	665.76	K	Joback Method
tc	868.93	K	Joback Method
tf	404.30	K	Joback Method
vc	0.580	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.52	J/mol×K	665.76	Joback Method
cpg	418.21	J/mol×K	835.07	Joback Method

cpg	410.47	J/mol×K	801.21	Joback Method
cpg	402.14	J/mol×K	767.35	Joback Method
cpg	393.21	J/mol×K	733.48	Joback Method
cpg	383.68	J/mol×K	699.62	Joback Method
cpg	425.40	J/mol×K	868.93	Joback Method
dvisc	0.0000569	Pa×s	665.76	Joback Method
dvisc	0.0000822	Pa×s	622.18	Joback Method
dvisc	0.0001255	Pa×s	578.61	Joback Method
dvisc	0.0002052	Pa×s	535.03	Joback Method
dvisc	0.0003661	Pa×s	491.45	Joback Method
dvisc	0.0007310	Pa×s	447.88	Joback Method
dvisc	0.0016944	Pa×s	404.30	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3547077&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume