Acetic acid, (4-chloro-2-methoxyphenyl)methyl ester

Inchi: InChI=1S/C10H11ClO3/c1-7(12)14-6-8-3-4-9(11)5-10(8)13-2/h3-5H,6H2,1-2H3

InchiKey: VOCDVPFIXYYVMF-UHFFFAOYSA-N

Formula: C10H11ClO3

SMILES: COc1cc(Cl)ccc1COC(C)=O

Mol. weight [g/mol]: 214.65

Physical Properties

Property code	Value	Unit	Source
gf	-224.38	kJ/mol	Joback Method
hf	-428.90	kJ/mol	Joback Method
hfus	23.09	kJ/mol	Joback Method
hvap	57.41	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.412		Crippen Method
mcvol	153.550	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpol	1589.00		NIST Webbook
rinpol	1589.00		NIST Webbook
tb	600.98	K	Joback Method
tc	817.52	K	Joback Method
tf	378.23	K	Joback Method
vc	0.579	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.51	J/mol×K	600.98	Joback Method
cpg	402.34	J/mol×K	781.43	Joback Method
cpg	392.89	J/mol×K	745.34	Joback Method
cpg	382.77	J/mol×K	709.25	Joback Method
cpg	372.00	J/mol×K	673.16	Joback Method
cpg	360.58	J/mol×K	637.07	Joback Method
cpg	411.11	J/mol×K	817.52	Joback Method
dvisc	0.0001655	Pa×s	600.98	Joback Method

dvisc	0.0002025	Pa×s	563.86	Joback Method
dvisc	0.0002551	Pa×s	526.73	Joback Method
dvisc	0.0003327	Pa×s	489.61	Joback Method
dvisc	0.0004531	Pa×s	452.48	Joback Method
dvisc	0.0006524	Pa×s	415.36	Joback Method
dvisc	0.0010088	Pa×s	378.23	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U368242&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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