Methanol, chloro-, acetate

Other names:	Chloromethyl ethanoate
	Chloromethyl acetate
Inchi:	InChI=1S/C3H5ClO2/c1-3(5)6-2-4/h2H2,1H3
InchiKey:	SMJYMSAPPGLBAR-UHFFFAOYSA-N
Formula:	C3H5ClO2
SMILES:	CC(=O)OCCl
Mol. weight [g/mol]:	108.52
CAS:	625-56-9

Physical Properties

Property code	Value	Unit	Source
gf	-271.47	kJ/mol	Joback Method
hf	-365.79	kJ/mol	Joback Method
hfus	10.51	kJ/mol	Joback Method
hvap	35.81	kJ/mol	Joback Method
log10ws	-0.59		Crippen Method
logp	0.746		Crippen Method
mcvol	72.810	ml/mol	McGowan Method
pc	4462.28	kPa	Joback Method
rinpol	680.00		NIST Webbook
rinpol	674.00		NIST Webbook
rinpol	691.00		NIST Webbook
rinpol	674.00		NIST Webbook
rinpol	680.00		NIST Webbook
ripol	1181.00		NIST Webbook
ripol	1174.00		NIST Webbook
ripol	1164.00		NIST Webbook
ripol	1180.00		NIST Webbook
ripol	1164.00		NIST Webbook
tb	381.76	K	Joback Method
tc	570.48	K	Joback Method
tf	225.65	K	Joback Method
vc	0.277	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	117.88	J/mol×K	381.76	Joback Method
cpg	123.10	J/mol×K	413.21	Joback Method
cpg	128.19	J/mol×K	444.67	Joback Method
cpg	133.14	J/mol×K	476.12	Joback Method
cpg	137.95	J/mol×K	507.57	Joback Method
cpg	142.60	J/mol×K	539.02	Joback Method
cpg	147.10	J/mol×K	570.48	Joback Method
dvisc	0.0025693	Pa×s	225.65	Joback Method
dvisc	0.0015292	Pa×s	251.67	Joback Method
dvisc	0.0010031	Pa×s	277.69	Joback Method
dvisc	0.0007073	Pa×s	303.70	Joback Method
dvisc	0.0005270	Pa×s	329.72	Joback Method
dvisc	0.0004099	Pa×s	355.74	Joback Method
dvisc	0.0003300	Pa×s	381.76	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=C625569&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume