

4-Penten-1-ol, chloroacetate

Inchi:	InChI=1S/C7H11ClO2/c1-2-3-4-5-10-7(9)6-8/h2H,1,3-6H2
InchiKey:	INNSMZAEAQGXF-UHFFFAOYSA-N
Formula:	C7H11ClO2
SMILES:	C=CCCCOC(=O)CCl
Mol. weight [g/mol]:	162.61

Physical Properties

Property code	Value	Unit	Source
gf	-149.95	kJ/mol	Joback Method
hf	-322.92	kJ/mol	Joback Method
hfus	19.59	kJ/mol	Joback Method
hvap	44.05	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	1.735		Crippen Method
mvol	124.870	ml/mol	McGowan Method
pc	2956.90	kPa	Joback Method
ripol	1072.00		NIST Webbook
ripol	1607.00		NIST Webbook
tb	469.96	K	Joback Method
tc	656.31	K	Joback Method
tf	268.97	K	Joback Method
vc	0.481	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.36	J/molxK	469.96	Joback Method
cpg	294.86	J/molxK	625.25	Joback Method
cpg	286.38	J/molxK	594.19	Joback Method
cpg	277.49	J/molxK	563.14	Joback Method
cpg	268.20	J/molxK	532.08	Joback Method
cpg	258.49	J/molxK	501.02	Joback Method
cpg	302.94	J/molxK	656.31	Joback Method
dvisc	0.0002844	Paxs	469.96	Joback Method

dvisc	0.0003601	Paxs	436.46	Joback Method
dvisc	0.0004741	Paxs	402.96	Joback Method
dvisc	0.0006561	Paxs	369.47	Joback Method
dvisc	0.0009687	Paxs	335.97	Joback Method
dvisc	0.0015592	Paxs	302.47	Joback Method
dvisc	0.0028258	Paxs	268.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R26475&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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