

Vinyl dichloro acetate

Inchi:	InChI=1S/C4H4Cl2O2/c1-2-8-4(7)3(5)6/h2-3H,1H2
InchiKey:	ZBCLTORTGNOIGM-UHFFFAOYSA-N
Formula:	C4H4Cl2O2
SMILES:	C=COC(=O)C(Cl)Cl
Mol. weight [g/mol]:	154.98
CAS:	7561-04-8

Physical Properties

Property code	Value	Unit	Source
gf	-189.58	kJ/mol	Joback Method
hf	-282.02	kJ/mol	Joback Method
hfus	12.49	kJ/mol	Joback Method
hvap	41.37	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	1.477		Crippen Method
mcvol	94.840	ml/mol	McGowan Method
pc	4005.77	kPa	Joback Method
tb	438.31	K	Joback Method
tc	641.95	K	Joback Method
tf	250.08	K	Joback Method
vc	0.356	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	156.71	J/mol×K	438.31	Joback Method
cpg	162.73	J/mol×K	472.25	Joback Method
cpg	168.48	J/mol×K	506.19	Joback Method
cpg	173.95	J/mol×K	540.13	Joback Method
cpg	179.15	J/mol×K	574.07	Joback Method
cpg	184.07	J/mol×K	608.01	Joback Method
cpg	188.72	J/mol×K	641.95	Joback Method
dvisc	0.0035678	Pa×s	250.08	Joback Method
dvisc	0.0019368	Pa×s	281.45	Joback Method

dvisc	0.0011884	Pa×s	312.82	Joback Method
dvisc	0.0007971	Pa×s	344.19	Joback Method
dvisc	0.0005716	Pa×s	375.57	Joback Method
dvisc	0.0004314	Pa×s	406.94	Joback Method
dvisc	0.0003390	Pa×s	438.31	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=C7561048&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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