

Propyl 2,3-dichloropropanoate

Inchi:	InChI=1S/C6H10Cl2O2/c1-2-3-10-6(9)5(8)4-7/h5H,2-4H2,1H3
InchiKey:	SKMKHNCZGUBBKX-UHFFFAOYSA-N
Formula:	C6H10Cl2O2
SMILES:	CCCOC(=O)C(Cl)CCI
Mol. weight [g/mol]:	185.05

Physical Properties

Property code	Value	Unit	Source
gf	-260.58	kJ/mol	Joback Method
hf	-448.73	kJ/mol	Joback Method
hfus	18.95	kJ/mol	Joback Method
hvap	46.49	kJ/mol	Joback Method
log10ws	-1.61		Crippen Method
logp	1.786		Crippen Method
mcvol	127.320	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
rinqol	1089.00		NIST Webbook
tb	487.39	K	Joback Method
tc	681.93	K	Joback Method
tf	274.38	K	Joback Method
vc	0.487	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.20	J/molxK	487.39	Joback Method
cpg	258.74	J/molxK	519.81	Joback Method
cpg	267.87	J/molxK	552.24	Joback Method
cpg	276.59	J/molxK	584.66	Joback Method
cpg	284.91	J/molxK	617.08	Joback Method
cpg	292.82	J/molxK	649.50	Joback Method
cpg	300.33	J/molxK	681.93	Joback Method
dvisc	0.0038678	Paxs	274.38	Joback Method
dvisc	0.0019631	Paxs	309.88	Joback Method

dvisc	0.0011455	Paxs	345.38	Joback Method
dvisc	0.0007390	Paxs	380.88	Joback Method
dvisc	0.0005137	Paxs	416.39	Joback Method
dvisc	0.0003781	Paxs	451.89	Joback Method
dvisc	0.0002910	Paxs	487.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R30367&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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