3-Chloro-2-methoxypropene

Inchi: InChI=1S/C4H7ClO/c1-4(3-5)6-2/h1,3H2,2H3
InchiKey: YHGBBOXHHMFPBY-UHFFFAOYSA-N
Formula: C4H7ClO
SMILES: C=C(CCl)OC
Mol. weight [g/mol]: 106.55

Physical Properties

Property code	Value	Unit	Source
gf	-54.84	kJ/mol	Joback Method
hf	-158.21	kJ/mol	Joback Method
hfus	8.91	kJ/mol	Joback Method
hvap	30.70	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	1.385		Crippen Method
mcvol	81.030	ml/mol	McGowan Method
pc	3862.67	kPa	Joback Method
ripol	1009.00		NIST Webbook
ripol	1009.00		NIST Webbook
tb	347.33	K	Joback Method
tc	528.30	K	Joback Method
tf	171.27	K	Joback Method
vc	0.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	126.62	J/mol×K	347.33	Joback Method
cpg	133.20	J/mol×K	377.49	Joback Method
cpg	139.57	J/mol×K	407.65	Joback Method
cpg	145.72	J/mol×K	437.82	Joback Method
cpg	151.66	J/mol×K	467.98	Joback Method
cpg	157.40	J/mol×K	498.14	Joback Method
cpg	162.93	J/mol×K	528.30	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R593949&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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