Carbonochloridic acid, 3-chloropropyl ester

Other names:	Formic acid, chloro-, 3-chloropropyl ester
	(3-Chloropropoxy)carbonyl chloride
	3-Chloropropyl chloroformate
	3-Chloropropyl chloridocarbonate
Inchi:	InChI=1S/C4H6Cl2O2/c5-2-1-3-8-4(6)7/h1-3H2
InchiKey:	MTXMEFUEBCFWCY-UHFFFAOYSA-N
Formula:	C4H6Cl2O2
SMILES:	O=C(Cl)OCCCCl
Mol. weight [g/mol]:	157.00
CAS:	628-11-5

Physical Properties

Property code	Value	Unit	Source
gf	-274.98	kJ/mol	Joback Method
hf	-402.17	kJ/mol	Joback Method
hfus	17.30	kJ/mol	Joback Method
hvap	42.42	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.991		Crippen Method
mcvol	99.140	ml/mol	McGowan Method
pc	3763.78	kPa	Joback Method
rinpol	999.00		NIST Webbook
tb	442.07	K	Joback Method
tc	636.71	K	Joback Method
tf	266.84	K	Joback Method
vc	0.382	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	171.94	J/mol×K	442.07	Joback Method
cpg	178.56	J/mol×K	474.51	Joback Method
cpg	184.93	J/mol×K	506.95	Joback Method
cpg	191.05	J/mol×K	539.39	Joback Method

cpg	196.92	J/mol×K	571.83	Joback Method
cpg	202.53	J/mol×K	604.27	Joback Method
cpg	207.89	J/mol×K	636.71	Joback Method
dvisc	0.0028294	Pa×s	266.84	Joback Method
dvisc	0.0016875	Pa×s	296.05	Joback Method
dvisc	0.0011043	Pa×s	325.25	Joback Method
dvisc	0.0007750	Pa×s	354.46	Joback Method
dvisc	0.0005740	Pa×s	383.66	Joback Method
dvisc	0.0004436	Pa×s	412.87	Joback Method
dvisc	0.0003546	Pa×s	442.07	Joback Method

Sources

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=C628115&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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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