2-(Chloromethyl)tetrahydropyran

Other names: 2-(Chloromethyl)tetrahydro-2H-pyran
Inchi: InChI=1S/C6H11ClO/c7-5-6-3-1-2-4-8-6/h6H,1-5H2
InchiKey: PPYKTTGONDVGPX-UHFFFAOYSA-N
Formula: C6H11ClO
SMILES: ClCC1CCCCO1
Mol. weight [g/mol]: 134.60
CAS: 18420-41-2

Physical Properties

Property code	Value	Unit	Source
gf	-73.96	kJ/mol	Joback Method
hf	-260.59	kJ/mol	Joback Method
hfus	15.31	kJ/mol	Joback Method
hvap	38.27	kJ/mol	Joback Method
log10ws	-1.58		Crippen Method
logp	1.794		Crippen Method
mcvol	102.650	ml/mol	McGowan Method
pc	3740.80	kPa	Joback Method
tb	420.61	K	Joback Method
tc	633.59	K	Joback Method
tf	221.25	K	Joback Method
vc	0.374	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	192.54	J/mol×K	420.61	Joback Method
cpg	206.68	J/mol×K	456.11	Joback Method
cpg	220.07	J/mol×K	491.60	Joback Method
cpg	232.74	J/mol×K	527.10	Joback Method
cpg	244.70	J/mol×K	562.60	Joback Method
cpg	255.98	J/mol×K	598.10	Joback Method
cpg	266.59	J/mol×K	633.59	Joback Method
dvisc	0.0075317	Pa×s	221.25	Joback Method

dvisc	0.0033009	Pa×s	254.48	Joback Method
dvisc	0.0017503	Pa×s	287.70	Joback Method
dvisc	0.0010584	Pa×s	320.93	Joback Method
dvisc	0.0007034	Pa×s	354.16	Joback Method
dvisc	0.0005014	Pa×s	387.38	Joback Method
dvisc	0.0003770	Pa×s	420.61	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	326.70	K	1.60	NIST Webbook

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=C18420412&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
tb: Normal Boiling Point Temperature
tbrp: Boiling point at reduced pressure
tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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