Chloromethyl tert-butyl ether

Inchi: InChI=1S/C5H11ClO/c1-5(2,3)7-4-6/h4H2,1-3H3
InchiKey: CIACLSGBPZWWNK-UHFFFAOYSA-N
Formula: C5H11ClO
SMILES: CC(C)(C)OCCl
Mol. weight [g/mol]: 122.59

Physical Properties

Property code	Value	Unit	Source
gf	-122.87	kJ/mol	Joback Method
hf	-303.24	kJ/mol	Joback Method
hfus	6.68	kJ/mol	Joback Method
hvap	32.22	kJ/mol	Joback Method
log10ws	-1.76		Crippen Method
logp	1.998		Crippen Method
mcvol	99.420	ml/mol	McGowan Method
pc	3329.68	kPa	Joback Method
rinpol	772.00		NIST Webbook
rinpol	772.00		NIST Webbook
tb	370.42	K	Joback Method
tc	555.51	K	Joback Method
tf	200.68	K	Joback Method
vc	0.371	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	173.93	J/mol×K	370.42	Joback Method
cpg	184.03	J/mol×K	401.27	Joback Method
cpg	193.67	J/mol×K	432.12	Joback Method
cpg	202.87	J/mol×K	462.97	Joback Method
cpg	211.63	J/mol×K	493.82	Joback Method
cpg	219.98	J/mol×K	524.67	Joback Method
cpg	227.93	J/mol×K	555.51	Joback Method
dvisc	0.0061676	Pa×s	200.68	Joback Method

dvisc	0.0027445	Pa×s	228.97	Joback Method
dvisc	0.0014593	Pa×s	257.26	Joback Method
dvisc	0.0008794	Pa×s	285.55	Joback Method
dvisc	0.0005806	Pa×s	313.84	Joback Method
dvisc	0.0004106	Pa×s	342.13	Joback Method
dvisc	0.0003061	Pa×s	370.42	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R629142&Units=SI

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