Benzene, 1,3-dichloro-5-(chloromethyl)-

Inchi: InChI=1S/C7H5Cl3/c8-4-5-1-6(9)3-7(10)2-5/h1-3H,4H2
InchiKey: ZFLRKAMKGYNFPH-UHFFFAOYSA-N
Formula: C7H5Cl3
SMILES: ClCc1cc(Cl)cc(Cl)c1
Mol. weight [g/mol]: 195.47
CAS: 3290-06-0

Physical Properties

Property code	Value	Unit	Source
gf	65.42	kJ/mol	Joback Method
hf	-21.44	kJ/mol	Joback Method
hfus	19.74	kJ/mol	Joback Method
hvap	47.93	kJ/mol	Joback Method
log10ws	-3.87		Crippen Method
logp	3.732		Crippen Method
mcvol	122.450	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
tb	508.49	K	Joback Method
tc	743.54	K	Joback Method
tf	309.87	K	Joback Method
vc	0.467	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.02	J/mol×K	508.49	Joback Method
cpg	216.67	J/mol×K	547.67	Joback Method
cpg	224.73	J/mol×K	586.84	Joback Method
cpg	232.23	J/mol×K	626.02	Joback Method
cpg	239.19	J/mol×K	665.19	Joback Method
cpg	245.65	J/mol×K	704.37	Joback Method
cpg	251.62	J/mol×K	743.54	Joback Method
dvisc	0.0017070	Pa×s	309.87	Joback Method
dvisc	0.0010988	Pa×s	342.97	Joback Method

dvisc	0.0007643	Pa×s	376.08	Joback Method
dvisc	0.0005638	Pa×s	409.18	Joback Method
dvisc	0.0004353	Pa×s	442.28	Joback Method
dvisc	0.0003484	Pa×s	475.39	Joback Method
dvisc	0.0002870	Pa×s	508.49	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3290060&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

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume