Benzenemethanol, 2,6-dichloro-«alpha»-methyl-

Other names: 2,6-Dichlorophenyl methyl carbinol
2,6-dichloro-«alpha»-methylbenzyl alcohol
Inchi: InChI=1S/C8H8Cl2O/c1-5(11)8-6(9)3-2-4-7(8)10/h2-5,11H,1H3
InchiKey: VUSOJMQVQGKPNN-UHFFFAOYSA-N
Formula: C8H8Cl2O
SMILES: CC(O)c1c(Cl)cccc1Cl
Mol. weight [g/mol]: 191.06
CAS: 53066-19-6

Physical Properties

Property code	Value	Unit	Source
gf	-53.49	kJ/mol	Joback Method
hf	-183.85	kJ/mol	Joback Method
hfus	18.70	kJ/mol	Joback Method
hvap	62.06	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.047		Crippen Method
mcvol	130.170	ml/mol	McGowan Method
pc	3633.35	kPa	Joback Method
tb	585.68	K	Joback Method
tc	798.96	K	Joback Method
tf	337.04	K	Joback Method
vc	0.486	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.61	J/mol×K	585.68	Joback Method
cpg	277.58	J/mol×K	621.23	Joback Method
cpg	285.99	J/mol×K	656.77	Joback Method
cpg	293.87	J/mol×K	692.32	Joback Method
cpg	301.24	J/mol×K	727.87	Joback Method
cpg	308.12	J/mol×K	763.41	Joback Method
cpg	314.53	J/mol×K	798.96	Joback Method

dvisc	0.0047267	Pa×s	337.04	Joback Method
dvisc	0.0017296	Pa×s	378.48	Joback Method
dvisc	0.0007718	Pa×s	419.92	Joback Method
dvisc	0.0003981	Pa×s	461.36	Joback Method
dvisc	0.0002291	Pa×s	502.80	Joback Method
dvisc	0.0001434	Pa×s	544.24	Joback Method
dvisc	0.0000959	Pa×s	585.68	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=C53066196&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume