2,4-Dichlorobenzyl alcohol, isopropyl ether

Inchi: InChI=1S/C10H12Cl2O/c1-7(2)13-6-8-3-4-9(11)5-10(8)12/h3-5,7H,6H2,1-2H3
InchiKey: XTHQGAKPWDEJDM-UHFFFAOYSA-N
Formula: C10H12Cl2O
SMILES: CC(C)OCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 219.11

Physical Properties

Property code	Value	Unit	Source
gf	-4.83	kJ/mol	Joback Method
hf	-205.12	kJ/mol	Joback Method
hfus	20.98	kJ/mol	Joback Method
hvap	52.25	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	3.918		Crippen Method
mcvol	158.350	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
rinpol	1449.00		NIST Webbook
tb	561.68	K	Joback Method
tc	781.85	K	Joback Method
tf	320.99	K	Joback Method
vc	0.598	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.81	J/mol×K	561.68	Joback Method
cpg	348.74	J/mol×K	598.38	Joback Method
cpg	360.96	J/mol×K	635.07	Joback Method
cpg	372.47	J/mol×K	671.77	Joback Method
cpg	383.28	J/mol×K	708.46	Joback Method
cpg	393.42	J/mol×K	745.16	Joback Method
cpg	402.89	J/mol×K	781.85	Joback Method
dvisc	0.0016690	Pa×s	320.99	Joback Method
dvisc	0.0009314	Pa×s	361.11	Joback Method

dvisc	0.0005841	Pa×s	401.22	Joback Method
dvisc	0.0003987	Pa×s	441.33	Joback Method
dvisc	0.0002900	Pa×s	481.45	Joback Method
dvisc	0.0002216	Pa×s	521.56	Joback Method
dvisc	0.0001759	Pa×s	561.68	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378104&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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