2,4-Dichlorobenzyl alcohol, n-butyl ether

Other names: 2,4-dichlorobenzyl butyl ether
Inchi: InChI=1S/C11H14Cl2O/c1-2-3-6-14-8-9-4-5-10(12)7-11(9)13/h4-5,7H,2-3,6,8H2,1H3
InchiKey: JSCVZXJIQORJNU-UHFFFAOYSA-N
Formula: C11H14Cl2O
SMILES: CCCCOCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 233.13

Physical Properties

Property code	Value	Unit	Source
gf	6.03	kJ/mol	Joback Method
hf	-220.48	kJ/mol	Joback Method
hfus	27.09	kJ/mol	Joback Method
hvap	54.86	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	4.310		Crippen Method
mcvol	172.440	ml/mol	McGowan Method
pc	2347.36	kPa	Joback Method
rinpol	1605.00		NIST Webbook
rinpol	1569.00		NIST Webbook
rinpol	1559.00		NIST Webbook
rinpol	1605.00		NIST Webbook
rinpol	1561.00		NIST Webbook
rinpol	1562.00		NIST Webbook
rinpol	1563.00		NIST Webbook
rinpol	1566.00		NIST Webbook
rinpol	1569.00		NIST Webbook
rinpol	1568.00		NIST Webbook
rinpol	1569.00		NIST Webbook
rinpol	1572.00		NIST Webbook
rinpol	1555.00		NIST Webbook
rinpol	1559.00		NIST Webbook
rinpol	1562.00		NIST Webbook
rinpol	1563.00		NIST Webbook
tb	585.00	K	Joback Method
tc	796.84	K	Joback Method
tf	347.26	K	Joback Method
vc	0.659	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.96	J/mol×K	585.00	Joback Method
cpg	442.12	J/mol×K	761.53	Joback Method
cpg	431.48	J/mol×K	726.23	Joback Method
cpg	420.17	J/mol×K	690.92	Joback Method
cpg	408.15	J/mol×K	655.61	Joback Method
cpg	395.42	J/mol×K	620.31	Joback Method
cpg	452.09	J/mol×K	796.84	Joback Method
dvisc	0.0001713	Pa×s	585.00	Joback Method
dvisc	0.0002127	Pa×s	545.38	Joback Method
dvisc	0.0002732	Pa×s	505.75	Joback Method
dvisc	0.0003661	Pa×s	466.13	Joback Method
dvisc	0.0005181	Pa×s	426.51	Joback Method
dvisc	0.0007871	Pa×s	386.88	Joback Method
dvisc	0.0013156	Pa×s	347.26	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U378106&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume