

2,3-Dichlorobenzyl alcohol, ethyl ether

Inchi:	InChI=1S/C9H10Cl2O/c1-2-12-6-7-4-3-5-8(10)9(7)11/h3-5H,2,6H2,1H3
InchiKey:	DUOBBXDMIKNXLP-UHFFFAOYSA-N
Formula:	C9H10Cl2O
SMILES:	CCOCc1cccc(Cl)c1Cl
Mol. weight [g/mol]:	205.08

Physical Properties

Property code	Value	Unit	Source
gf	-10.81	kJ/mol	Joback Method
hf	-179.20	kJ/mol	Joback Method
hfus	21.91	kJ/mol	Joback Method
hvap	50.41	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.530		Crippen Method
mcvol	144.260	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
rinpol	1440.00		NIST Webbook
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tb	539.24	K	Joback Method
tc	758.44	K	Joback Method
tf	324.72	K	Joback Method
vc	0.547	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.67	J/molxK	539.24	Joback Method
cpg	302.27	J/molxK	575.77	Joback Method
cpg	313.24	J/molxK	612.31	Joback Method
cpg	323.60	J/molxK	648.84	Joback Method
cpg	333.37	J/molxK	685.37	Joback Method
cpg	342.54	J/molxK	721.91	Joback Method
cpg	351.13	J/molxK	758.44	Joback Method
dvisc	0.0013666	Paxs	324.72	Joback Method

dvisc	0.0008503	Paxs	360.47	Joback Method
dvisc	0.0005763	Paxs	396.23	Joback Method
dvisc	0.0004166	Paxs	431.98	Joback Method
dvisc	0.0003165	Paxs	467.73	Joback Method
dvisc	0.0002500	Paxs	503.49	Joback Method
dvisc	0.0002037	Paxs	539.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U375310&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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