2,4-Dichlorobenzyl alcohol, n-propyl ether

Other names: 2,4-dichlorobenzyl propyl ether
Inchi: InChI=1S/C10H12Cl2O/c1-2-5-13-7-8-3-4-9(11)6-10(8)12/h3-4,6H,2,5,7H2,1H3
InchiKey: FZFOGSLKWQTCIQ-UHFFFAOYSA-N
Formula: C10H12Cl2O
SMILES: CCCOCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 219.11

Physical Properties

Property code	Value	Unit	Source
gf	-2.39	kJ/mol	Joback Method
hf	-199.84	kJ/mol	Joback Method
hfus	24.50	kJ/mol	Joback Method
hvap	52.63	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.920		Crippen Method
mcvol	158.350	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	1503.00		NIST Webbook
rinpol	1463.00		NIST Webbook
rinpol	1461.00		NIST Webbook
rinpol	1464.00		NIST Webbook
rinpol	1465.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1458.00		NIST Webbook
rinpol	1472.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1455.00		NIST Webbook
rinpol	1458.00		NIST Webbook
rinpol	1460.00		NIST Webbook
rinpol	1462.00		NIST Webbook
rinpol	1503.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1472.00		NIST Webbook
tb	562.12	K	Joback Method
tc	777.56	K	Joback Method
tf	335.99	K	Joback Method
vc	0.604	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.42	J/mol×K	562.12	Joback Method
cpg	391.74	J/mol×K	741.66	Joback Method
cpg	381.78	J/mol×K	705.75	Joback Method
cpg	371.18	J/mol×K	669.84	Joback Method
cpg	359.93	J/mol×K	633.93	Joback Method
cpg	348.02	J/mol×K	598.03	Joback Method
cpg	401.07	J/mol×K	777.56	Joback Method
dvisc	0.0001876	Pa×s	562.12	Joback Method
dvisc	0.0002316	Pa×s	524.43	Joback Method
dvisc	0.0002954	Pa×s	486.74	Joback Method
dvisc	0.0003924	Pa×s	449.06	Joback Method
dvisc	0.0005492	Pa×s	411.37	Joback Method
dvisc	0.0008226	Pa×s	373.68	Joback Method
dvisc	0.0013489	Pa×s	335.99	Joback Method

Sources

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=U378105&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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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