

2,5-Dichlorobenzyl alcohol, n-propyl ether

Inchi:	InChI=1S/C10H12Cl2O/c1-2-5-13-7-8-6-9(11)3-4-10(8)12/h3-4,6H,2,5,7H2,1H3
InchiKey:	UFFWOSZMNMQPLT-UHFFFAOYSA-N
Formula:	C10H12Cl2O
SMILES:	CCCOc1cc(Cl)ccc1Cl
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
mvol	158.350	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	1502.00		NIST Webbook
rinpol	1502.00		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/molxK	562.12	Joback Method
cpg	348.02	J/molxK	598.03	Joback Method
cpg	359.93	J/molxK	633.93	Joback Method
cpg	371.18	J/molxK	669.84	Joback Method
cpg	381.78	J/molxK	705.75	Joback Method
cpg	391.74	J/molxK	741.66	Joback Method
cpg	401.07	J/molxK	777.56	Joback Method
dvisc	0.0013489	Paxs	335.99	Joback Method

dvisc	0.0008226	Paxs	373.68	Joback Method
dvisc	0.0005492	Paxs	411.37	Joback Method
dvisc	0.0003924	Paxs	449.06	Joback Method
dvisc	0.0002954	Paxs	486.74	Joback Method
dvisc	0.0002316	Paxs	524.43	Joback Method
dvisc	0.0001876	Paxs	562.12	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=U378117&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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