2,5-Dichlorobenzyl alcohol, n-pentyl ether

Inchi: InChI=1S/C12H16Cl2O/c1-2-3-4-7-15-9-10-8-11(13)5-6-12(10)14/h5-6,8H,2-4,7,9H2,1H3
InchiKey: SHFXRECICCDCIE-UHFFFAOYSA-N
Formula: C12H16Cl2O
SMILES: CCCCCOCc1cc(Cl)ccc1Cl
Mol. weight [g/mol]: 247.16

Physical Properties

Property code	Value	Unit	Source
gf	14.45	kJ/mol	Joback Method
hf	-241.12	kJ/mol	Joback Method
hfus	29.68	kJ/mol	Joback Method
hvap	57.09	kJ/mol	Joback Method
log10ws	-4.90		Crippen Method
logp	4.700		Crippen Method
mcvol	186.530	ml/mol	McGowan Method
pc	2143.35	kPa	Joback Method
rinpol	1704.00		NIST Webbook
tb	607.88	K	Joback Method
tc	816.32	K	Joback Method
tf	358.53	K	Joback Method
vc	0.716	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.18	J/mol×K	607.88	Joback Method
cpg	493.65	J/mol×K	781.58	Joback Method
cpg	482.43	J/mol×K	746.84	Joback Method
cpg	470.49	J/mol×K	712.10	Joback Method
cpg	457.81	J/mol×K	677.36	Joback Method
cpg	444.38	J/mol×K	642.62	Joback Method
cpg	504.17	J/mol×K	816.32	Joback Method
dvisc	0.0001554	Pa×s	607.88	Joback Method
dvisc	0.0001939	Pa×s	566.32	Joback Method

dvisc	0.0002507	Pa×s	524.76	Joback Method
dvisc	0.0003387	Pa×s	483.20	Joback Method
dvisc	0.0004843	Pa×s	441.65	Joback Method
dvisc	0.0007459	Pa×s	400.09	Joback Method
dvisc	0.0012696	Pa×s	358.53	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U378123&Units=SI

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