2,4-dichlorobenzyl decyl ether

Inchi: InChI=1S/C17H26Cl2O/c1-2-3-4-5-6-7-8-9-12-20-14-15-10-11-16(18)13-17(15)19/h10-11
InchiKey: YFVORVXSIXXPDC-UHFFFAOYSA-N
Formula: C17H26Cl2O
SMILES: CCCCCCCCCCOCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 317.29

Physical Properties

Property code	Value	Unit	Source
gf	56.55	kJ/mol	Joback Method
hf	-344.32	kJ/mol	Joback Method
hfus	42.63	kJ/mol	Joback Method
hvap	68.22	kJ/mol	Joback Method
log10ws	-6.99		Crippen Method
logp	6.651		Crippen Method
mcvol	256.980	ml/mol	McGowan Method
pc	1434.80	kPa	Joback Method
rinpol	2171.00		NIST Webbook
rinpol	2179.00		NIST Webbook
rinpol	2177.00		NIST Webbook
tb	722.28	K	Joback Method
tc	918.35	K	Joback Method
tf	414.88	K	Joback Method
vc	0.996	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	693.12	J/mol×K	722.28	Joback Method
cpg	709.75	J/mol×K	754.96	Joback Method
cpg	725.45	J/mol×K	787.64	Joback Method
cpg	740.26	J/mol×K	820.32	Joback Method
cpg	754.19	J/mol×K	852.99	Joback Method
cpg	767.27	J/mol×K	885.67	Joback Method
cpg	779.54	J/mol×K	918.35	Joback Method

dvisc	0.0009350	Pa×s	414.88	Joback Method
dvisc	0.0005074	Pa×s	466.11	Joback Method
dvisc	0.0003108	Pa×s	517.35	Joback Method
dvisc	0.0002080	Pa×s	568.58	Joback Method
dvisc	0.0001487	Pa×s	619.81	Joback Method
dvisc	0.0001119	Pa×s	671.05	Joback Method
dvisc	0.0000877	Pa×s	722.28	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=R32254&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