2,4-dichlorobenzyl undecyl ether

Inchi: InChI=1S/C18H28Cl2O/c1-2-3-4-5-6-7-8-9-10-13-21-15-16-11-12-17(19)14-18(16)20/h11
InchiKey: OSOLFCOGEAVEPG-UHFFFAOYSA-N
Formula: C18H28Cl2O
SMILES: CCCCCCCCCCCOCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 331.32

Physical Properties

Property code	Value	Unit	Source
gf	64.97	kJ/mol	Joback Method
hf	-364.96	kJ/mol	Joback Method
hfus	45.22	kJ/mol	Joback Method
hvap	70.44	kJ/mol	Joback Method
log10ws	-7.41		Crippen Method
logp	7.041		Crippen Method
mcvol	271.070	ml/mol	McGowan Method
pc	1335.88	kPa	Joback Method
rinpol	2287.00		NIST Webbook
rinpol	2287.00		NIST Webbook
rinpol	2275.00		NIST Webbook
rinpol	2281.00		NIST Webbook
rinpol	2284.00		NIST Webbook
rinpol	2284.00		NIST Webbook
rinpol	2274.00		NIST Webbook
rinpol	2280.00		NIST Webbook
rinpol	2284.00		NIST Webbook
rinpol	2287.00		NIST Webbook
rinpol	2275.00		NIST Webbook
rinpol	2281.00		NIST Webbook
rinpol	2284.00		NIST Webbook
rinpol	2280.00		NIST Webbook
rinpol	2275.00		NIST Webbook
tb	745.16	K	Joback Method
tc	940.00	K	Joback Method
tf	426.15	K	Joback Method
vc	1.052	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	749.46	J/mol×K	745.16	Joback Method
cpg	766.41	J/mol×K	777.63	Joback Method
cpg	782.40	J/mol×K	810.11	Joback Method
cpg	797.47	J/mol×K	842.58	Joback Method
cpg	811.65	J/mol×K	875.06	Joback Method
cpg	824.97	J/mol×K	907.53	Joback Method
cpg	837.45	J/mol×K	940.00	Joback Method
dvisc	0.0008615	Pa×s	426.15	Joback Method
dvisc	0.0004611	Pa×s	479.32	Joback Method
dvisc	0.0002797	Pa×s	532.49	Joback Method
dvisc	0.0001857	Pa×s	585.65	Joback Method
dvisc	0.0001320	Pa×s	638.82	Joback Method
dvisc	0.0000989	Pa×s	691.99	Joback Method
dvisc	0.0000772	Pa×s	745.16	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R32389&Units=SI
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

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