

2,4-dichlorobenzyl pentadecyl ether

Inchi: InChI=1S/C22H36Cl2O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-17-25-19-20-15-16-21(23)18-
InchiKey: DQOSXTYICPYLDO-UHFFFAOYSA-N
Formula: C22H36Cl2O
SMILES: CCCCCCCCCCCCCCOc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 387.43

Physical Properties

Property code	Value	Unit	Source
gf	98.65	kJ/mol	Joback Method
hf	-447.52	kJ/mol	Joback Method
hfus	55.58	kJ/mol	Joback Method
hvap	79.35	kJ/mol	Joback Method
log10ws	-9.09		Crippen Method
logp	8.601		Crippen Method
mcvol	327.430	ml/mol	McGowan Method
pc	1027.28	kPa	Joback Method
rinpol	2693.00		NIST Webbook
rinpol	2702.00		NIST Webbook
rinpol	2693.00		NIST Webbook
rinpol	2699.00		NIST Webbook
rinpol	2702.00		NIST Webbook
rinpol	2705.00		NIST Webbook
rinpol	2696.00		NIST Webbook
rinpol	2704.00		NIST Webbook
rinpol	2705.00		NIST Webbook
rinpol	2693.00		NIST Webbook
rinpol	2699.00		NIST Webbook
rinpol	2705.00		NIST Webbook
rinpol	2706.00		NIST Webbook
rinpol	2695.00		NIST Webbook
rinpol	2698.00		NIST Webbook
tb	836.68	K	Joback Method
tc	1032.34	K	Joback Method
tf	471.23	K	Joback Method
vc	1.276	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	984.66	J/molxK	836.68	Joback Method
cpg	1002.73	J/molxK	869.29	Joback Method
cpg	1019.72	J/molxK	901.90	Joback Method
cpg	1035.68	J/molxK	934.51	Joback Method
cpg	1050.65	J/molxK	967.12	Joback Method
cpg	1064.65	J/molxK	999.73	Joback Method
cpg	1077.74	J/molxK	1032.34	Joback Method
dvisc	0.0005896	Paxs	471.23	Joback Method
dvisc	0.0003003	Paxs	532.14	Joback Method
dvisc	0.0001757	Paxs	593.05	Joback Method
dvisc	0.0001136	Paxs	653.95	Joback Method
dvisc	0.0000791	Paxs	714.86	Joback Method
dvisc	0.0000583	Paxs	775.77	Joback Method
dvisc	0.0000449	Paxs	836.68	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R32339&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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