

P-cyclohexyl phenyl ethyl ether

Inchi:	InChI=1S/C14H20O/c1-2-15-14-10-8-13(9-11-14)12-6-4-3-5-7-12/h8-12H,2-7H2,1H3
InchiKey:	NSWUTXBQZUULLQ-UHFFFAOYSA-N
Formula:	C14H20O
SMILES:	CCOc1ccc(C2CCCCC2)cc1
Mol. weight [g/mol]:	204.31
CAS:	1504-96-7

Physical Properties

Property code	Value	Unit	Source
gf	89.23	kJ/mol	Joback Method
hf	-185.13	kJ/mol	Joback Method
hfus	18.69	kJ/mol	Joback Method
hvap	52.54	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	4.133		Crippen Method
mvol	179.370	ml/mol	McGowan Method
pc	2361.07	kPa	Joback Method
tb	593.35	K	Joback Method
tc	822.65	K	Joback Method
tf	316.09	K	Joback Method
vc	0.662	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	461.27	J/molxK	593.35	Joback Method
cpg	554.38	J/molxK	784.44	Joback Method
cpg	538.31	J/molxK	746.22	Joback Method
cpg	521.00	J/molxK	708.00	Joback Method
cpg	502.42	J/molxK	669.78	Joback Method
cpg	482.52	J/molxK	631.57	Joback Method
cpg	569.25	J/molxK	822.65	Joback Method
dvisc	0.0001539	Paxs	593.35	Joback Method
dvisc	0.0002004	Paxs	547.14	Joback Method

dvisc	0.0002741	Paxs	500.93	Joback Method
dvisc	0.0003996	Paxs	454.72	Joback Method
dvisc	0.0006342	Paxs	408.51	Joback Method
dvisc	0.0011326	Paxs	362.30	Joback Method
dvisc	0.0023964	Paxs	316.09	Joback Method

Sources

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=C1504967&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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