

(R)-linden ether

Other names:	linden ether
Inchi:	InChI=1S/C10H14O/c1-7-3-4-9-8(2)6-11-10(9)5-7/h5,10H,3-4,6H2,1-2H3
InchiKey:	NDGVBBGSPJJRM-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	CC1=CC2OCC(C)=C2CC1
Mol. weight [g/mol]:	150.22
CAS:	125811-37-2

Physical Properties

Property code	Value	Unit	Source
gf	71.14	kJ/mol	Joback Method
hf	-153.12	kJ/mol	Joback Method
hfus	19.81	kJ/mol	Joback Method
hvap	45.59	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	2.442		Crippen Method
mcvol	127.310	ml/mol	McGowan Method
pc	3114.04	kPa	Joback Method
rinpol	1235.00		NIST Webbook
rinpol	1235.00		NIST Webbook
rinpol	1252.00		NIST Webbook
rinpol	1252.00		NIST Webbook
tb	499.37	K	Joback Method
tc	720.11	K	Joback Method
tf	297.67	K	Joback Method
vc	0.479	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.58	J/mol×K	499.37	Joback Method
cpg	360.75	J/mol×K	683.32	Joback Method
cpg	348.28	J/mol×K	646.53	Joback Method
cpg	334.98	J/mol×K	609.74	Joback Method

cpg	320.79	J/mol×K	572.95	Joback Method
cpg	305.68	J/mol×K	536.16	Joback Method
cpg	372.44	J/mol×K	720.11	Joback Method
dvisc	0.0004492	Paxs	499.37	Joback Method
dvisc	0.0005183	Paxs	465.75	Joback Method
dvisc	0.0006115	Paxs	432.14	Joback Method
dvisc	0.0007418	Paxs	398.52	Joback Method
dvisc	0.0009326	Paxs	364.90	Joback Method
dvisc	0.0012280	Paxs	331.29	Joback Method
dvisc	0.0017208	Paxs	297.67	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C125811372&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

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