Karahana ether

Inchi: InChI=1S/C10H16O/c1-7-4-5-9-10(2,3)8(7)6-11-9/h8-9H,1,4-6H2,2-3H3
InchiKey: FCTMDYJWWVBWKQ-UHFFFAOYSA-N
Formula: C10H16O
SMILES: C=C1CCC2OCC1C2(C)C
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	84.38	kJ/mol	Joback Method
hf	-169.31	kJ/mol	Joback Method
hfus	15.32	kJ/mol	Joback Method
hvap	41.23	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.378		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	2934.52	kPa	Joback Method
ripol	1368.00		NIST Webbook
ripol	1368.00		NIST Webbook
ripol	1370.00		NIST Webbook
tb	471.90	K	Joback Method
tc	686.91	K	Joback Method
tf	291.21	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.93	J/mol×K	471.90	Joback Method
cpg	323.30	J/mol×K	507.73	Joback Method
cpg	340.36	J/mol×K	543.57	Joback Method
cpg	356.23	J/mol×K	579.40	Joback Method
cpg	371.07	J/mol×K	615.24	Joback Method
cpg	384.99	J/mol×K	651.07	Joback Method
cpg	398.13	J/mol×K	686.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R210298&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
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume