Exo-2-ethylidenetetrahydrofuran

Inchi: InChI=1S/C6H10O/c1-2-6-4-3-5-7-6/h2H,3-5H2,1H3/b6-2+
InchiKey: FLLKLVUMIZLEGM-QHHAFSJGSA-N
Formula: C6H10O
SMILES: CC=C1CCCO1
Mol. weight [g/mol]: 98.14
CAS: 38614-13-0

Physical Properties

Property code	Value	Unit	Source
gf	3.24	kJ/mol	Joback Method
hf	-142.32	kJ/mol	Joback Method
hfus	12.46	kJ/mol	Joback Method
hvap	34.81	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	1.701		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	4103.88	kPa	Joback Method
tb	390.22	K	Joback Method
tc	595.13	K	Joback Method
tf	209.45	K	Joback Method
vc	0.318	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	153.80	J/mol×K	390.22	Joback Method
cpg	165.86	J/mol×K	424.37	Joback Method
cpg	177.24	J/mol×K	458.52	Joback Method
cpg	187.98	J/mol×K	492.68	Joback Method
cpg	198.11	J/mol×K	526.83	Joback Method
cpg	207.66	J/mol×K	560.98	Joback Method
cpg	216.65	J/mol×K	595.13	Joback Method
dvisc	0.0039989	Pa×s	209.45	Joback Method
dvisc	0.0020050	Pa×s	239.58	Joback Method

dvisc	0.0011729	Pa×s	269.71	Joback Method
dvisc	0.0007642	Pa×s	299.83	Joback Method
dvisc	0.0005385	Pa×s	329.96	Joback Method
dvisc	0.0004023	Pa×s	360.09	Joback Method
dvisc	0.0003144	Pa×s	390.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C38614130&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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