2-ethyl-1,3-dioxane

Inchi: InChI=1S/C6H12O2/c1-2-6-7-4-3-5-8-6/h6H,2-5H2,1H3
InchiKey: YYSCEOFBYTXZLD-UHFFFAOYSA-N
Formula: C6H12O2
SMILES: CCC1OCCCO1
Mol. weight [g/mol]: 116.16

Physical Properties

Property code	Value	Unit	Source
gf	-148.15	kJ/mol	Joback Method
hf	-376.85	kJ/mol	Joback Method
hfus	19.09	kJ/mol	Joback Method
hvap	38.40	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	1.159		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
rinpol	824.00		NIST Webbook
rinpol	824.00		NIST Webbook
tb	410.13	K	Joback Method
tc	615.35	K	Joback Method
tf	217.90	K	Joback Method
vc	0.346	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.19	J/mol×K	410.13	Joback Method
cpg	207.38	J/mol×K	444.33	Joback Method
cpg	220.89	J/mol×K	478.54	Joback Method
cpg	233.74	J/mol×K	512.74	Joback Method
cpg	245.96	J/mol×K	546.95	Joback Method
cpg	257.54	J/mol×K	581.15	Joback Method
cpg	268.50	J/mol×K	615.35	Joback Method
dvisc	0.0087042	Pa×s	217.90	Joback Method

dvisc	0.0037017	Pa×s	249.94	Joback Method
dvisc	0.0019119	Pa×s	281.98	Joback Method
dvisc	0.0011300	Pa×s	314.01	Joback Method
dvisc	0.0007362	Pa×s	346.05	Joback Method
dvisc	0.0005157	Pa×s	378.09	Joback Method
dvisc	0.0003819	Pa×s	410.13	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R222523&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