Tetrahydrofuran-2-carbaldehyde

Inchi: InChI=1S/C5H8O2/c6-4-5-2-1-3-7-5/h4-5H,1-3H2
InchiKey: BBNYLDSWVXSNOQ-UHFFFAOYSA-N
Formula: C5H8O2
SMILES: O=CC1CCCO1
Mol. weight [g/mol]: 100.12
CAS: 79710-86-4

Physical Properties

Property code	Value	Unit	Source
gf	-157.87	kJ/mol	Joback Method
hf	-303.63	kJ/mol	Joback Method
hfl	-318.70	kJ/mol	NIST Webbook
hfus	12.91	kJ/mol	Joback Method
hvap	38.21	kJ/mol	Joback Method
log10ws	-0.29		Crippen Method
logp	0.364		Crippen Method
mcvol	77.890	ml/mol	McGowan Method
pc	4736.62	kPa	Joback Method
tb	404.69	K	Joback Method
tc	610.69	K	Joback Method
tf	225.58	K	Joback Method
vc	0.294	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.12	J/mol×K	404.69	Joback Method
cpg	160.24	J/mol×K	439.02	Joback Method
cpg	170.76	J/mol×K	473.36	Joback Method
cpg	180.71	J/mol×K	507.69	Joback Method
cpg	190.09	J/mol×K	542.03	Joback Method
cpg	198.94	J/mol×K	576.36	Joback Method
cpg	207.26	J/mol×K	610.69	Joback Method
dvisc	0.0041829	Pa×s	225.58	Joback Method

dvisc	0.0023516	Pa×s	255.43	Joback Method
dvisc	0.0014914	Pa×s	285.28	Joback Method
dvisc	0.0010311	Pa×s	315.13	Joback Method
dvisc	0.0007598	Pa×s	344.99	Joback Method
dvisc	0.0005879	Pa×s	374.84	Joback Method
dvisc	0.0004724	Pa×s	404.69	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=C79710864&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
hfl:	Liquid phase 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