4,5-Dihydrofuran-3-carbaldehyde

Inchi: InChI=1S/C5H6O2/c6-3-5-1-2-7-4-5/h3-4H,1-2H2
InchiKey: KGQQYFHAJQGVSX-UHFFFAOYSA-N
Formula: C5H6O2
SMILES: O=CC1=COCC1
Mol. weight [g/mol]: 98.10

Physical Properties

Property code	Value	Unit	Source
gf	-129.83	kJ/mol	Joback Method
hf	-236.98	kJ/mol	Joback Method
hfus	12.67	kJ/mol	Joback Method
hvap	39.47	kJ/mol	Joback Method
log10ws	-0.53		Crippen Method
logp	0.489		Crippen Method
mcvol	73.590	ml/mol	McGowan Method
pc	5109.34	kPa	Joback Method
ripol	1172.00		NIST Webbook
ripol	1172.00		NIST Webbook
tb	413.50	K	Joback Method
tc	623.77	K	Joback Method
tf	243.10	K	Joback Method
vc	0.281	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.07	J/mol×K	413.50	Joback Method
cpg	145.02	J/mol×K	448.54	Joback Method
cpg	153.43	J/mol×K	483.59	Joback Method
cpg	161.34	J/mol×K	518.63	Joback Method
cpg	168.76	J/mol×K	553.68	Joback Method
cpg	175.71	J/mol×K	588.72	Joback Method
cpg	182.21	J/mol×K	623.77	Joback Method
dvisc	0.0034097	Pa×s	243.10	Joback Method

dvisc	0.0020238	Pa×s	271.50	Joback Method
dvisc	0.0013260	Pa×s	299.90	Joback Method
dvisc	0.0009347	Pa×s	328.30	Joback Method
dvisc	0.0006966	Pa×s	356.70	Joback Method
dvisc	0.0005422	Pa×s	385.10	Joback Method
dvisc	0.0004367	Pa×s	413.50	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=R519090&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume