2(3H)-Furanone, 5-ethoxydihydro-

Other names:	«gamma»-Ethoxybutyrolactone
	Butanoic acid, 4-oxo-, ethyl hemiacetal, «gamma»-lactone
	4-Ethoxy-«gamma»-butyrolactone
	5-Ethoxydihydro-2(3H)-furanone
Inchi:	InChI=1S/C6H10O3/c1-2-8-6-4-3-5(7)9-6/h6H,2-4H2,1H3
InchiKey:	RGFKJRWDZOGFEG-UHFFFAOYSA-N
Formula:	C6H10O3
SMILES:	CCOC1CCC(=O)O1
Mol. weight [g/mol]:	130.14
CAS:	932-85-4

Physical Properties

Property code	Value	Unit	Source
gf	-277.52	kJ/mol	Joback Method
hf	-508.61	kJ/mol	Joback Method
hfus	13.91	kJ/mol	Joback Method
hvap	40.37	kJ/mol	Joback Method
log10ws	-0.79		Crippen Method
logp	0.686		Crippen Method
mcvol	97.850	ml/mol	McGowan Method
pc	3881.95	kPa	Joback Method
rinpol	1067.00		NIST Webbook
rinpol	1067.00		NIST Webbook
ripol	1728.00		NIST Webbook
ripol	1728.00		NIST Webbook
ripol	1794.00		NIST Webbook
ripol	1794.00		NIST Webbook
tb	469.15	K	Joback Method
tc	684.35	K	Joback Method
tf	285.30	K	Joback Method
vc	0.358	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	215.80	J/mol×K	469.15	Joback Method
cpg	228.60	J/mol×K	505.02	Joback Method
cpg	240.94	J/mol×K	540.88	Joback Method
cpg	252.80	J/mol×K	576.75	Joback Method
cpg	264.17	J/mol×K	612.61	Joback Method
cpg	275.01	J/mol×K	648.48	Joback Method
cpg	285.31	J/mol×K	684.35	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C932854&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

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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