

.+/-.-Tetrahydro-3-furanmethanol

Inchi:	InChI=1S/C5H10O2/c6-3-5-1-2-7-4-5/h5-6H,1-4H2
InchiKey:	PCPUMGYALMOCHF-UHFFFAOYSA-N
Formula:	C5H10O2
SMILES:	OCC1CCOC1
Mol. weight [g/mol]:	102.13
CAS:	15833-61-1

Physical Properties

Property code	Value	Unit	Source
gf	-195.17	kJ/mol	Joback Method
hf	-370.28	kJ/mol	Joback Method
hfus	14.71	kJ/mol	Joback Method
hvap	48.17	kJ/mol	Joback Method
log10ws	0.08		Crippen Method
logp	0.015		Crippen Method
mvol	82.190	ml/mol	McGowan Method
pc	4856.20	kPa	Joback Method
rinpol	913.50		NIST Webbook
ripol	2309.00		NIST Webbook
tb	448.21	K	Joback Method
tc	637.66	K	Joback Method
tf	244.40	K	Joback Method
vc	0.296	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.23	J/molxK	448.21	Joback Method
cpg	225.03	J/molxK	606.08	Joback Method
cpg	216.46	J/molxK	574.51	Joback Method
cpg	207.41	J/molxK	542.93	Joback Method
cpg	197.87	J/molxK	511.36	Joback Method
cpg	187.81	J/molxK	479.78	Joback Method
cpg	233.15	J/molxK	637.66	Joback Method

dvisc	0.0003221	Paxs	448.21	Joback Method
dvisc	0.0005219	Paxs	414.24	Joback Method
dvisc	0.0009219	Paxs	380.27	Joback Method
dvisc	0.0018209	Paxs	346.30	Joback Method
dvisc	0.0041702	Paxs	312.34	Joback Method
dvisc	0.0116912	Paxs	278.37	Joback Method
dvisc	0.0436528	Paxs	244.40	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	349.70	K	0.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C15833611&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
ripol:	Polar retention indices

tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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