2-Furanmethanamine, tetrahydro-

Other names:	Furfurylamine, tetrahydro-
	Tetrahydro-2-furanmethanamine
	Tetrahydrofurfurylamine
	2-Aminomethyltetrahydrofuran
	(.+/-.)-Tetrahydrofurfurylamine
	USAF Q-2
	UN 2943
	Tetrahydro-2-furanylmethylamine
	NSC 76037
Inchi:	InChI=1S/C5H11NO/c6-4-5-2-1-3-7-5/h5H,1-4,6H2
InchiKey:	YNOGYQAEJGADFJ-UHFFFAOYSA-N
Formula:	C5H11NO
SMILES:	NCC1CCCO1
Mol. weight [g/mol]:	101.15
CAS:	4795-29-3

Physical Properties

Property code	Value	Unit	Source
gf	8.10	kJ/mol	Joback Method
hf	-184.26	kJ/mol	Joback Method
hfus	15.82	kJ/mol	Joback Method
hvap	42.13	kJ/mol	Joback Method
log10ws	-0.44		Crippen Method
logp	0.124		Crippen Method
mcvol	86.300	ml/mol	McGowan Method
pc	4627.70	kPa	Joback Method
tb	428.56	K	Joback Method
tc	642.71	K	Joback Method
tf	266.84	K	Joback Method
vc	0.306	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	181.24	J/mol×K	428.56	Joback Method
cpg	194.15	J/mol×K	464.25	Joback Method
cpg	206.34	J/mol×K	499.94	Joback Method
cpg	217.85	J/mol×K	535.63	Joback Method
cpg	228.69	J/mol×K	571.32	Joback Method
cpg	238.89	J/mol×K	607.02	Joback Method
cpg	248.48	J/mol×K	642.71	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	426.70	K	99.20	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4795293&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
tb: Normal Boiling Point Temperature
tbrp: Boiling point at reduced pressure
tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume