2-Furanmethanamine, tetrahydro-N-[(tetrahydro-2-furanyl)methyl]-

Other names: Di(2-Tetrahydrofurylmethyl)amine
Amine, difurfuryl, octahydro-
Amine, bis(2-tetrahydrofurfuryl)

Inchi: InChI=1S/C10H19NO2/c1-3-9(12-5-1)7-11-8-10-4-2-6-13-10/h9-11H,1-8H2

InchiKey: WLEPBZLOVVHVIK-UHFFFAOYSA-N

Formula: C10H19NO2

SMILES: C1COC(CNCC2CCCO2)C1

Mol. weight [g/mol]: 185.26

CAS: 5343-16-8

Physical Properties

Property code	Value	Unit	Source
gf	23.57	kJ/mol	Joback Method
hf	-339.30	kJ/mol	Joback Method
hfus	30.58	kJ/mol	Joback Method
hvap	53.82	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	0.934		Crippen Method
mcvol	151.760	ml/mol	McGowan Method
pc	3009.03	kPa	Joback Method
tb	562.83	K	Joback Method
tc	781.75	K	Joback Method
tf	330.06	K	Joback Method
vc	0.554	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	410.83	J/mol×K	562.83	Joback Method
cpg	430.71	J/mol×K	599.32	Joback Method
cpg	449.33	J/mol×K	635.80	Joback Method
cpg	466.75	J/mol×K	672.29	Joback Method
cpg	483.02	J/mol×K	708.78	Joback Method
cpg	498.18	J/mol×K	745.26	Joback Method

cpg	512.30	J/mol×K	781.75	Joback Method

Sources

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=C5343168&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume