Cyclohexanecarboxamide, N-tetrahydrofurfuryl-

Inchi: InChI=1S/C12H21NO2/c14-12(10-5-2-1-3-6-10)13-9-11-7-4-8-15-11/h10-11H,1-9H2,(H,1

InchiKey: VZZZJFZRZIRFPP-UHFFFAOYSA-N

Formula: C12H21NO2

SMILES: O=C(NCC1CCCO1)C1CCCCC1

Mol. weight [g/mol]: 211.30

Physical Properties

Property code	Value	Unit	Source
gf	-14.49	kJ/mol	Joback Method
hf	-367.32	kJ/mol	Joback Method
hfus	27.28	kJ/mol	Joback Method
hvap	60.68	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	1.862		Crippen Method
mcvol	175.640	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
rinpol	1782.00		NIST Webbook
rinpol	1782.00		NIST Webbook
tb	639.78	K	Joback Method
tc	867.69	K	Joback Method
tf	372.44	K	Joback Method
vc	0.643	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	508.55	J/mol×K	639.78	Joback Method
cpg	529.22	J/mol×K	677.76	Joback Method
cpg	548.45	J/mol×K	715.75	Joback Method
cpg	566.30	J/mol×K	753.73	Joback Method
cpg	582.81	J/mol×K	791.72	Joback Method
cpg	598.05	J/mol×K	829.70	Joback Method
cpg	612.07	J/mol×K	867.69	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U306944&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume