Cyclohexanecarboxamide, N,N-dibutyl-

Inchi: InChI=1S/C15H29NO/c1-3-5-12-16(13-6-4-2)15(17)14-10-8-7-9-11-14/h14H,3-13H2,1-2H
InchiKey: WEHVGGDGBSKNPO-UHFFFAOYSA-N
Formula: C15H29NO
SMILES: CCCCN(CCCC)C(=O)C1CCCCC1
Mol. weight [g/mol]: 239.40

Physical Properties

Property code	Value	Unit	Source
gf	81.73	kJ/mol	Joback Method
hf	-343.66	kJ/mol	Joback Method
hfus	31.06	kJ/mol	Joback Method
hvap	58.20	kJ/mol	Joback Method
log10ws	-4.10		Crippen Method
logp	3.996		Crippen Method
mcvol	222.900	ml/mol	McGowan Method
pc	1747.74	kPa	Joback Method
rinpol	1760.00		NIST Webbook
tb	628.46	K	Joback Method
tc	819.67	K	Joback Method
tf	348.59	K	Joback Method
vc	0.833	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.27	J/mol×K	628.46	Joback Method
cpg	645.18	J/mol×K	660.33	Joback Method
cpg	664.96	J/mol×K	692.20	Joback Method
cpg	683.63	J/mol×K	724.07	Joback Method
cpg	701.25	J/mol×K	755.94	Joback Method
cpg	717.85	J/mol×K	787.80	Joback Method
cpg	733.47	J/mol×K	819.67	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308519&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