Cyclobutanecarboxamide, N,N-dibutyl-

Inchi: InChI=1S/C13H25NO/c1-3-5-10-14(11-6-4-2)13(15)12-8-7-9-12/h12H,3-11H2,1-2H3
InchiKey: DHWWHBBOFSVBID-UHFFFAOYSA-N
Formula: C13H25NO
SMILES: CCCCN(CCCC)C(=O)C1CCC1
Mol. weight [g/mol]: 211.34

Physical Properties

Property code	Value	Unit	Source
gf	89.09	kJ/mol	Joback Method
hf	-290.06	kJ/mol	Joback Method
hfus	30.08	kJ/mol	Joback Method
hvap	53.41	kJ/mol	Joback Method
log10ws	-3.26		Crippen Method
logp	3.215		Crippen Method
mcvol	194.720	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
rinpol	1565.00		NIST Webbook
rinpol	1565.00		NIST Webbook
tb	574.16	K	Joback Method
tc	758.10	K	Joback Method
tf	333.09	K	Joback Method
vc	0.737	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	511.98	J/mol×K	574.16	Joback Method
cpg	530.57	J/mol×K	604.82	Joback Method
cpg	548.19	J/mol×K	635.47	Joback Method
cpg	564.89	J/mol×K	666.13	Joback Method
cpg	580.71	J/mol×K	696.79	Joback Method
cpg	595.69	J/mol×K	727.44	Joback Method
cpg	609.86	J/mol×K	758.10	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=U308596&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume