But-2-enamide, N,N-dibutyl-3-methyl-

Inchi: InChI=1S/C13H25NO/c1-5-7-9-14(10-8-6-2)13(15)11-12(3)4/h11H,5-10H2,1-4H3
InchiKey: MRAITAQDOZEGHB-UHFFFAOYSA-N
Formula: C13H25NO
SMILES: CCCCN(CCCC)C(=O)C=C(C)C
Mol. weight [g/mol]: 211.34

Physical Properties

Property code	Value	Unit	Source
gf	112.11	kJ/mol	Joback Method
hf	-249.27	kJ/mol	Joback Method
hfus	32.94	kJ/mol	Joback Method
hvap	53.36	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	3.381		Crippen Method
mcvol	201.280	ml/mol	McGowan Method
pc	1813.86	kPa	Joback Method
rinpol	1539.00		NIST Webbook
tb	567.19	K	Joback Method
tc	743.93	K	Joback Method
tf	299.63	K	Joback Method
vc	0.768	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	504.80	J/mol×K	567.19	Joback Method
cpg	521.72	J/mol×K	596.65	Joback Method
cpg	537.83	J/mol×K	626.10	Joback Method
cpg	553.17	J/mol×K	655.56	Joback Method
cpg	567.75	J/mol×K	685.02	Joback Method
cpg	581.63	J/mol×K	714.47	Joback Method
cpg	594.83	J/mol×K	743.93	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308235&Units=SI

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