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

Inchi: InChI=1S/C23H45NO/c1-5-7-9-11-13-15-17-19-24(23(25)21-22(3)4)20-18-16-14-12-10-8
InchiKey: TYVARDDMVCULEK-UHFFFAOYSA-N
Formula: C23H45NO
SMILES: CCCCCCCCCN(CCCCCCCCC)C(=O)C=C(C)C
Mol. weight [g/mol]: 351.61

Physical Properties

Property code	Value	Unit	Source
gf	196.31	kJ/mol	Joback Method
hf	-455.67	kJ/mol	Joback Method
hfus	58.84	kJ/mol	Joback Method
hvap	75.62	kJ/mol	Joback Method
log10ws	-7.65		Crippen Method
logp	7.282		Crippen Method
mcvol	342.180	ml/mol	McGowan Method
pc	913.84	kPa	Joback Method
rinpol	2500.00		NIST Webbook
rinpol	2500.00		NIST Webbook
tb	795.99	K	Joback Method
tc	976.85	K	Joback Method
tf	412.33	K	Joback Method
vc	1.329	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1079.06	J/mol×K	795.99	Joback Method
cpg	1099.94	J/mol×K	826.13	Joback Method
cpg	1119.80	J/mol×K	856.28	Joback Method
cpg	1138.69	J/mol×K	886.42	Joback Method
cpg	1156.67	J/mol×K	916.56	Joback Method
cpg	1173.78	J/mol×K	946.71	Joback Method
cpg	1190.10	J/mol×K	976.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308243&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

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

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