Ethyl-(Z)-3-(N'-methyl-N'-phenylhydrazino)-2-buta

Inchi: InChI=1S/C13H18N2O2/c1-4-17-13(16)10-11(2)14-15(3)12-8-6-5-7-9-12/h5-10,14H,4H2
InchiKey: HEFZMYBYMUQVPD-KHPPLWFESA-N
Formula: C13H18N2O2
SMILES: CCOC(=O)C=C(C)NN(C)c1ccccc1
Mol. weight [g/mol]: 234.29
CAS: 33604-10-3

Physical Properties

Property code	Value	Unit	Source
gf	208.91	kJ/mol	Joback Method
hf	-91.49	kJ/mol	Joback Method
hfus	33.27	kJ/mol	Joback Method
hvap	64.48	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.094		Crippen Method
mcvol	193.370	ml/mol	McGowan Method
pc	2448.32	kPa	Joback Method
tb	666.46	K	Joback Method
tc	877.95	K	Joback Method
tf	400.94	K	Joback Method
vc	0.714	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.39	J/mol×K	666.46	Joback Method
cpg	528.70	J/mol×K	701.71	Joback Method
cpg	542.99	J/mol×K	736.96	Joback Method
cpg	556.33	J/mol×K	772.20	Joback Method
cpg	568.76	J/mol×K	807.45	Joback Method
cpg	580.35	J/mol×K	842.70	Joback Method
cpg	591.13	J/mol×K	877.95	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C33604103&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume