Butanal, 2-butenylhydrazone

Other names: Butyraldehyde crotylhydrazone
Inchi: InChI=1S/C8H16N2/c1-3-5-7-9-10-8-6-4-2/h3,5,8-9H,4,6-7H2,1-2H3/b5-3+,10-8?
InchiKey: NJOLUQSSLMAZEB-QXFJBYEUSA-N
Formula: C8H16N2
SMILES: CC=CCNN=CCCC
Mol. weight [g/mol]: 140.23
CAS: 36566-74-2

Physical Properties

Property code	Value	Unit	Source
hf	44.46	kJ/mol	Joback Method
hvap	43.11	kJ/mol	Joback Method
ie	7.80 ± 0.10	eV	NIST Webbook
log10ws	-2.37		Crippen Method
logp	1.938		Crippen Method
mcvol	134.940	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
tb	513.45	K	Joback Method
tc	708.74	K	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=C36566742&Units=SI

Legend

hf: Enthalpy of formation at standard conditions

hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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