N-butraldehyde phenylhydrazone

Other names: Butyraldehyde, phenylhydrazone
Inchi: InChI=1S/C10H14N2/c1-2-3-9-11-12-10-7-5-4-6-8-10/h4-9,12H,2-3H2,1H3/b11-9+
InchiKey: TVUBYAHAPNBNKY-PKNBQFBNSA-N
Formula: C10H14N2
SMILES: CCCC=NNc1ccccc1
Mol. weight [g/mol]: 162.23
CAS: 940-54-5

Physical Properties

Property code	Value	Unit	Source
hf	122.49	kJ/mol	Joback Method
hvap	49.88	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.884		Crippen Method
mcvol	143.660	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
tb	581.73	K	Joback Method
tc	805.37	K	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=C940545&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf: Enthalpy of formation 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