2-Pentanone, dimethylhydrazone

Inchi: InChI=1S/C7H16N2/c1-5-6-7(2)8-9(3)4/h5-6H2,1-4H3/b8-7-
InchiKey: FRNVWUPLTPHVKA-FPLPWBNLSA-N
Formula: C7H16N2
SMILES: CCCC(C)=NN(C)C
Mol. weight [g/mol]: 128.22

Physical Properties

Property code	Value	Unit	Source
hf	-47.85	kJ/mol	Joback Method
hvap	36.61	kJ/mol	Joback Method
log10ws	-1.48		Crippen Method
logp	1.724		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2520.12	kPa	Joback Method
rinpol	881.20		NIST Webbook
rinpol	866.00		NIST Webbook
rinpol	866.00		NIST Webbook
tb	448.56	K	Joback Method
tc	636.15	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=R224198&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature