2-Propanone, dimethylhydrazone

Other names: Acetone dimethylhydrazone
Inchi: InChI=1S/C5H12N2/c1-5(2)6-7(3)4/h1-4H3
InchiKey: IDSMDKUVIBSETN-UHFFFAOYSA-N
Formula: C5H12N2
SMILES: CC(C)=NN(C)C
Mol. weight [g/mol]: 100.16
CAS: 13483-31-3

Physical Properties

Property code	Value	Unit	Source
hf	-6.57	kJ/mol	Joback Method
hvap	32.16	kJ/mol	Joback Method
ie	7.43	eV	NIST Webbook
log10ws	-0.64		Crippen Method
logp	0.944		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3086.42	kPa	Joback Method
rinpol	710.30		NIST Webbook
rinpol	696.00		NIST Webbook
rinpol	696.00		NIST Webbook
rinpol	692.00		NIST Webbook
rinpol	692.00		NIST Webbook
rinpol	692.00		NIST Webbook
tb	402.80	K	Joback Method
tc	593.73	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13483313&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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature