2-Propanone, methylhydrazone

Other names: Acetone methylhydrazone
Inchi: InChI=1S/C4H10N2/c1-4(2)6-5-3/h5H,1-3H3
InchiKey: JXSSEZYJBTUIGX-UHFFFAOYSA-N
Formula: C4H10N2
SMILES: CNN=C(C)C
Mol. weight [g/mol]: 86.14
CAS: 5771-02-8

Physical Properties

Property code	Value	Unit	Source
chl	-3043.90 ± 0.80	kJ/mol	NIST Webbook
hf	0.01	kJ/mol	Joback Method
hfl	39.70 ± 0.80	kJ/mol	NIST Webbook
hvap	34.33	kJ/mol	Joback Method
ie	7.69	eV	NIST Webbook
log10ws	-0.84		Crippen Method
logp	0.602		Crippen Method
mcvol	82.880	ml/mol	McGowan Method
pc	3505.43	kPa	Joback Method
rinpol	728.00		NIST Webbook
rinpol	728.00		NIST Webbook
tb	417.65	K	Joback Method
tc	616.64	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=C5771028&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chl: Standard liquid enthalpy of combustion

hf: Enthalpy of formation at standard conditions

hfl: Liquid phase 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

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