

2-Propanone, propylhydrazone

Other names:	Acetone n-propylhydrazone Acetone propylhydrazone
Inchi:	InChI=1S/C6H14N2/c1-4-5-7-8-6(2)3/h7H,4-5H2,1-3H3
InchiKey:	BBXDSCHJVVIYFF-UHFFFAOYSA-N
Formula:	C6H14N2
SMILES:	CCCNN=C(C)C
Mol. weight [g/mol]:	114.19
CAS:	7423-00-9

Physical Properties

Property code	Value	Unit	Source
chl	-4355.50 ± 1.00	kJ/mol	NIST Webbook
hf	-41.27	kJ/mol	Joback Method
hfl	-6.30 ± 1.00	kJ/mol	NIST Webbook
hvap	38.78	kJ/mol	Joback Method
log10ws	-1.68		Crippen Method
logp	1.382		Crippen Method
mvol	111.060	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rmpol	888.00		NIST Webbook
tb	463.41	K	Joback Method
tc	658.15	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	44.00	kJ/mol	303.00	NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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=C7423009&Units=SI

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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpolar:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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