

2-Propanone, (1-methylethyl)hydrazone

Other names:	Acetone isopropylhydrazone
Inchi:	InChI=1S/C6H14N2/c1-5(2)7-8-6(3)4/h5,7H,1-4H3
InchiKey:	NEMJPYNJMBONJU-UHFFFAOYSA-N
Formula:	C6H14N2
SMILES:	CC(C)=NNC(C)C
Mol. weight [g/mol]:	114.19
CAS:	7423-01-0

Physical Properties

Property code	Value	Unit	Source
chl	-4340.50 ± 1.20	kJ/mol	NIST Webbook
hf	-46.55	kJ/mol	Joback Method
hfl	-21.30 ± 1.20	kJ/mol	NIST Webbook
hvap	38.39	kJ/mol	Joback Method
log10ws	-1.79		Crippen Method
logp	1.380		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
rinpol	828.00		NIST Webbook
rinpol	828.00		NIST Webbook
tb	462.97	K	Joback Method
tc	662.18	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	44.60	kJ/mol	305.50	NIST Webbook

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=C7423010&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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