

Propanal, (1-methylethyl)hydrazone

Other names:	Propionaldehyde isopropylhydrazone Propanal, isopropyl hydrazone, # 2
Inchi:	InChI=1S/C6H14N2/c1-4-5-7-8-6(2)3/h5-6,8H,4H2,1-3H3
InchiKey:	XWSLKTSKRPZHPI-UHFFFAOYSA-N
Formula:	C6H14N2
SMILES:	CCC=NNC(C)C
Mol. weight [g/mol]:	114.19
CAS:	16713-38-5

Physical Properties

Property code	Value	Unit	Source
hf	-36.76	kJ/mol	Joback Method
hvap	38.31	kJ/mol	Joback Method
log10ws	-1.79		Crippen Method
logp	1.380		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
rinpol	862.00		NIST Webbook
rinpol	862.00		NIST Webbook
tb	463.09	K	Joback Method
tc	658.51	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=C16713385&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
r_{inpol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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