Acetaldehyde, propylhydrazone

Other names:	Acetaldehyde n-propylhydrazone
	Ethanal, propylhydrazone
Inchi:	InChI=1S/C5H12N2/c1-3-5-7-6-4-2/h4,7H,3,5H2,1-2H3
InchiKey:	JBTBOJIWJFQQPH-UHFFFAOYSA-N
Formula:	C5H12N2
SMILES:	CC=NNCCC
Mol. weight [g/mol]:	100.16
CAS:	7422-88-0

Physical Properties

Property code	Value	Unit	Source
hf	-10.84	kJ/mol	Joback Method
hvap	36.47	kJ/mol	Joback Method
log10ws	-1.26		Crippen Method
logp	0.992		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
rinpol	820.00		NIST Webbook
rinpol	820.00		NIST Webbook
tb	440.65	K	Joback Method
tc	633.77	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7422880&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
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