

Propanal, dimethylhydrazone

Other names:	Propionaldehyde dimethylhydrazone
Inchi:	InChI=1S/C5H12N2/c1-4-5-6-7(2)3/h5H,4H2,1-3H3
InchiKey:	FWXVUFLNENPJHD-UHFFFAOYSA-N
Formula:	C5H12N2
SMILES:	CCC=NN(C)C
Mol. weight [g/mol]:	100.16
CAS:	7422-93-7

Physical Properties

Property code	Value	Unit	Source
hf	3.22	kJ/mol	Joback Method
hvap	32.08	kJ/mol	Joback Method
log10ws	-0.64		Crippen Method
logp	0.944		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3069.34	kPa	Joback Method
rinpol	766.00		NIST Webbook
rinpol	766.00		NIST Webbook
rinpol	784.90		NIST Webbook
tb	402.92	K	Joback Method
tc	590.06	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=C7422937&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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