

Propanal, 2-methyl-, methylhydrazone

Other names:	Isobutyraldehyde methylhydrazone Isobutanal, methylhydrazone
Inchi:	InChI=1S/C5H12N2/c1-5(2)4-7-6-3/h4-6H,1-3H3
InchiKey:	QLVOGAHIAVPTFB-UHFFFAOYSA-N
Formula:	C5H12N2
SMILES:	CNN=CC(C)C
Mol. weight [g/mol]:	100.16
CAS:	16713-37-4

Physical Properties

Property code	Value	Unit	Source
hf	-16.12	kJ/mol	Joback Method
hvap	36.09	kJ/mol	Joback Method
log10ws	-1.02		Crippen Method
logp	0.848		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3149.09	kPa	Joback Method
rinpol	727.00		NIST Webbook
rinpol	727.00		NIST Webbook
tb	440.21	K	Joback Method
tc	637.85	K	Joback Method

Sources

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=C16713374&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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