Propanal, 2-methyl-, oxime

Other names:	Isobutyraldehyde, oxime
	Isobutylaldoxime
	Isobutyraldeoxime
	Isobutyraldoxime
	2-Methylpropanal oxime
	Isobutanal oxime
	USAF AM-8
	2-Methyl-1-propanal oxime
	NSC 8425
Inchi:	InChI=1S/C4H9NO/c1-4(2)3-5-6/h3-4,6H,1-2H3
InchiKey:	SYJPAKDNFZLSMV-UHFFFAOYSA-N
Formula:	C4H9NO
SMILES:	CC(C)C=NO
Mol. weight [g/mol]:	87.12
CAS:	151-00-8

Physical Properties

Property code	Value	Unit	Source
hf	-201.18	kJ/mol	Joback Method
hvap	44.10	kJ/mol	Joback Method
log10ws	-0.07		Crippen Method
logp	1.102		Crippen Method
mcvol	78.770	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
rinpol	746.00		NIST Webbook
tb	459.34	K	Joback Method
tc	646.12	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=C151008&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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