Propanal, oxime

Other names: Propionaldehyde oxime
Inchi: InChI=1S/C3H7NO/c1-2-3-4-5/h3,5H,2H2,1H3
InchiKey: IFDZZSXEPSSHNC-UHFFFAOYSA-N
Formula: C3H7NO
SMILES: CCC=NO
Mol. weight [g/mol]: 73.09
CAS: 627-39-4

Physical Properties

Property code	Value	Unit	Source
hf	-175.26	kJ/mol	Joback Method
hvap	42.27	kJ/mol	Joback Method
log10ws	0.10		Crippen Method
logp	0.856		Crippen Method
mcvol	64.680	ml/mol	McGowan Method
pc	4333.96	kPa	Joback Method
rinpol	689.00		NIST Webbook
rinpol	689.00		NIST Webbook
tb	436.90	K	Joback Method
tc	621.27	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	51.20	kJ/mol	326.00	NIST Webbook

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C627394&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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