sec-Butyl nitrite

Other names:	Nitrous acid, 1-methylpropyl ester
	Nitrous acid, sec-butyl ester
	CH3CH2CH(CH3)ONO
	2-Butyl nitrite
Inchi:	InChI=1S/C4H9NO2/c1-3-4(2)7-5-6/h4H,3H2,1-2H3
InchiKey:	NFGNZNFBQAGBJA-UHFFFAOYSA-N
Formula:	C4H9NO2
SMILES:	CCC(C)ON=O
Mol. weight [g/mol]:	103.12
CAS:	924-43-6

Physical Properties

Property code	Value	Unit	Source
chl	-2672.00 ± 0.80	kJ/mol	NIST Webbook
hf	-153.00 ± 4.20	kJ/mol	NIST Webbook
hfl	-188.00	kJ/mol	NIST Webbook
hvap	35.00	kJ/mol	NIST Webbook
log10ws	-1.88		Crippen Method
logp	1.483		Crippen Method
mcvol	84.640	ml/mol	McGowan Method
pc	3768.41	kPa	Joback Method
rinpol	542.00		NIST Webbook
ripol	730.00		NIST Webbook
tb	341.00 ± 1.00	K	NIST Webbook
tb	341.15 ± 1.50	K	NIST Webbook
tb	341.50 ± 0.50	K	NIST Webbook
tc	548.96	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	29.60	kJ/mol	277.00	NIST Webbook

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=C924436&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chl:	Standard liquid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase 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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature