

# N-Nitrosodipropylamine, HFBA-derivative

<b>Inchi:</b>	InChI=1S/C14H10F14N2O2/c1-3-5-29(6-4-2)30(7(31)9(15,16)11(19,20)13(23,24)25)8(32)
<b>InchiKey:</b>	SNQZPUKWJOYAKK-CIIODKQPSA-N
<b>Formula:</b>	C14H10F14N2O2
<b>SMILES:</b>	CC=CN(C=CC)N(C(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(=O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	504.22

## Physical Properties

Property code	Value	Unit	Source
gf	-2519.14	kJ/mol	Joback Method
hf	-2985.99	kJ/mol	Joback Method
hfus	40.30	kJ/mol	Joback Method
hvap	45.04	kJ/mol	Joback Method
log10ws	-6.64		Crippen Method
logp	5.292		Crippen Method
mcvol	247.400	ml/mol	McGowan Method
pc	1229.42	kPa	Joback Method
rinsol	1190.00		NIST Webbook
tb	631.06	K	Joback Method
tc	781.65	K	Joback Method
tf	424.96	K	Joback Method
vc	1.014	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	730.12	J/mol×K	631.06	Joback Method
cpg	741.94	J/mol×K	656.16	Joback Method
cpg	752.83	J/mol×K	681.26	Joback Method
cpg	762.85	J/mol×K	706.36	Joback Method
cpg	772.09	J/mol×K	731.46	Joback Method
cpg	780.62	J/mol×K	756.56	Joback Method
cpg	788.52	J/mol×K	781.65	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R579938&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R579938&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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