

# Noratropine

<b>Inchi:</b>	InChI=1S/C16H21NO3/c18-10-15(11-4-2-1-3-5-11)16(19)20-14-8-12-6-7-13(9-14)17-12/
<b>InchiKey:</b>	ATKYNAZQGVYHIB-UHFFFAOYSA-N
<b>Formula:</b>	C16H21NO3
<b>SMILES:</b>	O=C(OC1CC2CCC(C1)N2)C(CO)c1ccccc1
<b>Mol. weight [g/mol]:</b>	275.34
<b>CAS:</b>	16839-98-8

## Physical Properties

Property code	Value	Unit	Source
gf	0.37	kJ/mol	Joback Method
hf	-388.60	kJ/mol	Joback Method
hfus	37.32	kJ/mol	Joback Method
hvap	85.55	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	1.589		Crippen Method
mcvol	214.110	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
rinpol	2328.30		NIST Webbook
rinpol	2328.30		NIST Webbook
rinpol	2274.30		NIST Webbook
rinpol	2274.30		NIST Webbook
tb	826.09	K	Joback Method
tc	1050.02	K	Joback Method
tf	544.11	K	Joback Method
vc	0.794	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	691.73	J/molxK	826.09	Joback Method
cpg	707.11	J/molxK	863.41	Joback Method
cpg	721.32	J/molxK	900.73	Joback Method
cpg	734.41	J/molxK	938.05	Joback Method
cpg	746.48	J/molxK	975.38	Joback Method

cpg	757.57	J/mol×K	1012.70	Joback Method
cpg	767.77	J/mol×K	1050.02	Joback Method

## Sources

<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=C16839988&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16839988&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## 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>hvap:</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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