

# Actinodaphnine

<b>Inchi:</b>	InChI=1S/C18H17NO4/c1-21-14-7-11-10(5-13(14)20)4-12-16-9(2-3-19-12)6-15-18(17(11
<b>InchiKey:</b>	VYJUHRAQPIBWNV-UHFFFAOYSA-N
<b>Formula:</b>	C18H17NO4
<b>SMILES:</b>	COc1cc2c(cc1O)CC1NCCc3cc4c(c-2c31)OCO4
<b>Mol. weight [g/mol]:</b>	311.33
<b>CAS:</b>	517-69-1

## Physical Properties

Property code	Value	Unit	Source
gf	133.34	kJ/mol	Joback Method
hf	-281.09	kJ/mol	Joback Method
hfus	55.01	kJ/mol	Joback Method
hvap	95.57	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	2.539		Crippen Method
mcvol	217.840	ml/mol	McGowan Method
pc	3072.75	kPa	Joback Method
rinpol	3108.10		NIST Webbook
rinpol	3108.10		NIST Webbook
tb	925.26	K	Joback Method
tc	1184.87	K	Joback Method
tf	778.52	K	Joback Method
vc	0.771	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	701.48	J/molxK	925.26	Joback Method
cpg	716.81	J/molxK	968.53	Joback Method
cpg	732.18	J/molxK	1011.80	Joback Method
cpg	747.85	J/molxK	1055.06	Joback Method
cpg	764.06	J/molxK	1098.33	Joback Method
cpg	781.06	J/molxK	1141.60	Joback Method
cpg	799.12	J/molxK	1184.87	Joback Method

# Sources

<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=C517691&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C517691&amp;Units=SI</a>
<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>

# 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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