

# 4-Cyanobenzoic acid, 1-adamantylmethyl ester

<b>Inchi:</b>	InChI=1S/C19H21NO2/c20-11-13-1-3-17(4-2-13)18(21)22-12-19-8-14-5-15(9-19)7-16(6-
<b>InchiKey:</b>	YCAOTPGYMYJDPX-UHFFFAOYSA-N
<b>Formula:</b>	C19H21NO2
<b>SMILES:</b>	N#Cc1ccc(C(=O)OCC23CC4CC(CC(C4)C2)C3)cc1
<b>Mol. weight [g/mol]:</b>	295.38

## Physical Properties

Property code	Value	Unit	Source
gf	268.09	kJ/mol	Joback Method
hf	-83.21	kJ/mol	Joback Method
hfus	29.99	kJ/mol	Joback Method
hvap	78.91	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	3.931		Crippen Method
mcvol	231.050	ml/mol	McGowan Method
pc	1927.05	kPa	Joback Method
rinpol	2412.20		NIST Webbook
rinpol	2412.20		NIST Webbook
tb	864.21	K	Joback Method
tc	1110.81	K	Joback Method
tf	549.94	K	Joback Method
vc	0.901	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	755.11	J/mol×K	864.21	Joback Method
cpg	773.88	J/mol×K	905.31	Joback Method
cpg	792.49	J/mol×K	946.41	Joback Method
cpg	811.21	J/mol×K	987.51	Joback Method
cpg	830.34	J/mol×K	1028.61	Joback Method
cpg	850.16	J/mol×K	1069.71	Joback Method
cpg	870.95	J/mol×K	1110.81	Joback Method

# Sources

<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>
<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=U292450&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292450&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>hvp:</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>rinp:</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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