

# 4-Cyanobenzoic acid, 2-(1-adamantyl)ethyl ester

Inchi:	InChI=1S/C20H23NO2/c21-13-14-1-3-18(4-2-14)19(22)23-6-5-20-10-15-7-16(11-20)9-17
InchiKey:	AZWYYPCUJHQVSQ-UHFFFAOYSA-N
Formula:	C20H23NO2
SMILES:	N#Cc1ccc(C(=O)OCCC2CC4CC(CC(C4)C2)C3)cc1
Mol. weight [g/mol]:	309.40

## Physical Properties

Property code	Value	Unit	Source
gf	276.51	kJ/mol	Joback Method
hf	-103.85	kJ/mol	Joback Method
hfus	32.58	kJ/mol	Joback Method
hvap	81.14	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	4.322		Crippen Method
mcvol	245.140	ml/mol	McGowan Method
pc	1774.35	kPa	Joback Method
rinpol	2509.00		NIST Webbook
rinpol	2509.00		NIST Webbook
tb	887.09	K	Joback Method
tc	1129.93	K	Joback Method
tf	561.21	K	Joback Method
vc	0.958	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	814.46	J/mol×K	887.09	Joback Method
cpg	833.86	J/mol×K	927.56	Joback Method
cpg	853.18	J/mol×K	968.04	Joback Method
cpg	872.69	J/mol×K	1008.51	Joback Method
cpg	892.68	J/mol×K	1048.98	Joback Method
cpg	913.41	J/mol×K	1089.45	Joback Method
cpg	935.17	J/mol×K	1129.93	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U292451&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292451&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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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