

# 4-Cyanobenzoic acid, cyclobutyl ester

<b>Inchi:</b>	InChI=1S/C12H11NO2/c13-8-9-4-6-10(7-5-9)12(14)15-11-2-1-3-11/h4-7,11H,1-3H2
<b>InchiKey:</b>	ZEYMYKZTN SCNKB-UHFFFAOYSA-N
<b>Formula:</b>	C12H11NO2
<b>SMILES:</b>	N#Cc1ccc(C(=O)OC2CCC2)cc1
<b>Mol. weight [g/mol]:</b>	201.22

## Physical Properties

Property code	Value	Unit	Source
gf	100.85	kJ/mol	Joback Method
hf	-79.23	kJ/mol	Joback Method
hfus	20.82	kJ/mol	Joback Method
hvap	64.96	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	2.268		Crippen Method
mvol	154.140	ml/mol	McGowan Method
pc	2835.36	kPa	Joback Method
rinpol	1692.60		NIST Webbook
rinpol	1692.60		NIST Webbook
tb	695.00	K	Joback Method
tc	937.34	K	Joback Method
tf	415.51	K	Joback Method
vc	0.599	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.42	J/mol×K	695.00	Joback Method
cpg	419.54	J/mol×K	735.39	Joback Method
cpg	431.63	J/mol×K	775.78	Joback Method
cpg	442.75	J/mol×K	816.17	Joback Method
cpg	452.93	J/mol×K	856.56	Joback Method
cpg	462.24	J/mol×K	896.95	Joback Method
cpg	470.72	J/mol×K	937.34	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=U292447&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292447&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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