

# 4-Cyanobenzoic acid, pentyl ester

<b>Inchi:</b>	InChI=1S/C13H15NO2/c1-2-3-4-9-16-13(15)12-7-5-11(10-14)6-8-12/h5-8H,2-4,9H2,1H3
<b>InchiKey:</b>	PSHNNCVKUDBIDE-UHFFFAOYSA-N
<b>Formula:</b>	C13H15NO2
<b>SMILES:</b>	CCCCCOC(=O)c1ccc(C#N)cc1
<b>Mol. weight [g/mol]:</b>	217.26

## Physical Properties

Property code	Value	Unit	Source
gf	60.62	kJ/mol	Joback Method
hf	-166.51	kJ/mol	Joback Method
hfus	27.37	kJ/mol	Joback Method
hvap	67.10	kJ/mol	Joback Method
log10ws	-3.74		Crippen Method
logp	2.905		Crippen Method
mcvol	179.090	ml/mol	McGowan Method
pc	2206.22	kPa	Joback Method
rinpol	1700.00		NIST Webbook
rinpol	1700.00		NIST Webbook
tb	706.87	K	Joback Method
tc	923.68	K	Joback Method
tf	412.36	K	Joback Method
vc	0.706	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.48	J/mol×K	706.87	Joback Method
cpg	484.30	J/mol×K	743.00	Joback Method
cpg	496.28	J/mol×K	779.14	Joback Method
cpg	507.44	J/mol×K	815.27	Joback Method
cpg	517.79	J/mol×K	851.41	Joback Method
cpg	527.38	J/mol×K	887.54	Joback Method
cpg	536.20	J/mol×K	923.68	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=U299830&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299830&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>
<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>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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