

# 4-Cyanobenzoic acid, 2-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C15H11NO2/c1-11-4-2-3-5-14(11)18-15(17)13-8-6-12(10-16)7-9-13/h2-9H,1H3
<b>InchiKey:</b>	WZYRZQSCQIKYSA-UHFFFAOYSA-N
<b>Formula:</b>	C15H11NO2
<b>SMILES:</b>	Cc1ccccc1OC(=O)c1ccc(C#N)cc1
<b>Mol. weight [g/mol]:</b>	237.25
<b>CAS:</b>	229164-37-8

## Physical Properties

Property code	Value	Unit	Source
gf	180.24	kJ/mol	Joback Method
hf	17.27	kJ/mol	Joback Method
hfus	26.20	kJ/mol	Joback Method
hvap	74.49	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.086		Crippen Method
mcvol	183.510	ml/mol	McGowan Method
pc	2487.55	kPa	Joback Method
rinpol	1918.20		NIST Webbook
rinpol	1918.20		NIST Webbook
tb	784.29	K	Joback Method
tc	1033.83	K	Joback Method
tf	473.84	K	Joback Method
vc	0.710	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.85	J/molxK	784.29	Joback Method
cpg	495.73	J/molxK	825.88	Joback Method
cpg	506.51	J/molxK	867.47	Joback Method
cpg	516.24	J/molxK	909.06	Joback Method
cpg	524.96	J/molxK	950.65	Joback Method
cpg	532.72	J/molxK	992.24	Joback Method
cpg	539.55	J/molxK	1033.83	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=C229164378&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C229164378&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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