

# 3-Phenylpropionic acid, 4-cyanophenyl ester

<b>Inchi:</b>	InChI=1S/C16H13NO2/c17-12-14-6-9-15(10-7-14)19-16(18)11-8-13-4-2-1-3-5-13/h1-7,9
<b>InchiKey:</b>	IAMZBAJGBSDDJE-UHFFFAOYSA-N
<b>Formula:</b>	C16H13NO2
<b>SMILES:</b>	N#Cc1ccc(OC(=O)CCc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	251.28

## Physical Properties

Property code	Value	Unit	Source
gf	198.29	kJ/mol	Joback Method
hf	8.10	kJ/mol	Joback Method
hfus	29.18	kJ/mol	Joback Method
hvap	76.06	kJ/mol	Joback Method
log10ws	-4.17		Crippen Method
logp	3.096		Crippen Method
mcvol	197.600	ml/mol	McGowan Method
pc	2298.11	kPa	Joback Method
rinqol	2115.00		NIST Webbook
tb	802.19	K	Joback Method
tc	1046.14	K	Joback Method
tf	472.59	K	Joback Method
vc	0.765	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.67	J/mol×K	802.19	Joback Method
cpg	551.02	J/mol×K	842.85	Joback Method
cpg	562.25	J/mol×K	883.51	Joback Method
cpg	572.41	J/mol×K	924.17	Joback Method
cpg	581.55	J/mol×K	964.82	Joback Method
cpg	589.74	J/mol×K	1005.48	Joback Method
cpg	597.03	J/mol×K	1046.14	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307784&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307784&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.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>hvap:</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>rinpola:</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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