

# 4-Cyanobenzoic acid, 2,6-dimethylnon-1-en-3-yn-5-yl ester

**Inchi:** InChI=1S/C19H21NO2/c1-5-6-15(4)18(12-7-14(2)3)22-19(21)17-10-8-16(13-20)9-11-17/  
**InchiKey:** ARBGFWDVAVXOGHV-UHFFFAOYSA-N  
**Formula:** C19H21NO2  
**SMILES:** C=C(C)C#CC(OC(=O)c1ccc(C#N)cc1)C(C)CCC  
**Mol. weight [g/mol]:** 295.38

## Physical Properties

Property code	Value	Unit	Source
gf	388.35	kJ/mol	Joback Method
hf	87.03	kJ/mol	Joback Method
hfus	36.40	kJ/mol	Joback Method
hvap	81.25	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	4.099		Crippen Method
mcvol	250.730	ml/mol	McGowan Method
pc	1623.29	kPa	Joback Method
rinpol	2084.00		NIST Webbook
tb	848.83	K	Joback Method
tc	1080.56	K	Joback Method
tf	540.36	K	Joback Method
vc	0.974	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	723.19	J/molxK	848.83	Joback Method
cpg	737.54	J/molxK	887.45	Joback Method
cpg	750.77	J/molxK	926.07	Joback Method
cpg	762.93	J/molxK	964.69	Joback Method
cpg	774.08	J/molxK	1003.32	Joback Method
cpg	784.26	J/molxK	1041.94	Joback Method
cpg	793.53	J/molxK	1080.56	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U299228&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299228&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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