

# 4-Cyanobenzoic acid, heptadecyl ester

<b>Inchi:</b>	InChI=1S/C25H39NO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-21-28-25(27)24-19-17-
<b>InchiKey:</b>	RWCIOCJHQNQKIT-UHFFFAOYSA-N
<b>Formula:</b>	C25H39NO2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)c1ccc(C#N)cc1
<b>Mol. weight [g/mol]:</b>	385.58

## Physical Properties

Property code	Value	Unit	Source
gf	161.66	kJ/mol	Joback Method
hf	-414.19	kJ/mol	Joback Method
hfus	58.45	kJ/mol	Joback Method
hvap	93.82	kJ/mol	Joback Method
log10ws	-8.76		Crippen Method
logp	7.586		Crippen Method
mcvol	348.170	ml/mol	McGowan Method
pc	928.94	kPa	Joback Method
rinpol	2750.40		NIST Webbook
tb	981.43	K	Joback Method
tc	1201.55	K	Joback Method
tf	547.60	K	Joback Method
vc	1.377	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1162.92	J/molxK	981.43	Joback Method
cpg	1179.62	J/molxK	1018.12	Joback Method
cpg	1195.04	J/molxK	1054.80	Joback Method
cpg	1209.23	J/molxK	1091.49	Joback Method
cpg	1222.27	J/molxK	1128.17	Joback Method
cpg	1234.21	J/molxK	1164.86	Joback Method
cpg	1245.13	J/molxK	1201.55	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U292455&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292455&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>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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