

# Sebacic acid, 4-cyanophenyl ethyl ester

<b>Inchi:</b>	InChI=1S/C19H25NO4/c1-2-23-18(21)9-7-5-3-4-6-8-10-19(22)24-17-13-11-16(15-20)12-
<b>InchiKey:</b>	HOIBETSIIPOZNB-UHFFFAOYSA-N
<b>Formula:</b>	C19H25NO4
<b>SMILES:</b>	CCOC(=O)CCCCCCCC(=O)Oc1ccc(C#N)cc1
<b>Mol. weight [g/mol]:</b>	331.41

## Physical Properties

Property code	Value	Unit	Source
gf	-122.78	kJ/mol	Joback Method
hf	-535.15	kJ/mol	Joback Method
hfus	45.70	kJ/mol	Joback Method
hvap	89.62	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.148		Crippen Method
mcvol	271.070	ml/mol	McGowan Method
pc	1414.37	kPa	Joback Method
rinqol	2682.00		NIST Webbook
tb	920.44	K	Joback Method
tc	1135.27	K	Joback Method
tf	552.14	K	Joback Method
vc	1.065	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	842.80	J/molxK	920.44	Joback Method
cpg	855.52	J/molxK	956.24	Joback Method
cpg	867.09	J/molxK	992.05	Joback Method
cpg	877.53	J/molxK	1027.85	Joback Method
cpg	886.87	J/molxK	1063.66	Joback Method
cpg	895.11	J/molxK	1099.46	Joback Method
cpg	902.29	J/molxK	1135.27	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354439&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354439&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>

# 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>hvac:</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>mccol:</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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