

# Succinic acid, 4-cyanophenyl 2-ethoxyethyl ester

<b>Inchi:</b>	InChI=1S/C15H17NO5/c1-2-19-9-10-20-14(17)7-8-15(18)21-13-5-3-12(11-16)4-6-13/h3-
<b>InchiKey:</b>	APTBPGSZWINMRD-UHFFFAOYSA-N
<b>Formula:</b>	C15H17NO5
<b>SMILES:</b>	CCOCCOC(=O)CCC(=O)Oc1ccc(C#N)cc1
<b>Mol. weight [g/mol]:</b>	291.30

## Physical Properties

Property code	Value	Unit	Source
gf	-261.46	kJ/mol	Joback Method
hf	-584.81	kJ/mol	Joback Method
hfus	36.53	kJ/mol	Joback Method
hvap	83.12	kJ/mol	Joback Method
log10ws	-2.60		Crippen Method
logp	1.824		Crippen Method
mvol	220.580	ml/mol	McGowan Method
pc	1903.58	kPa	Joback Method
rinpol	2314.00		NIST Webbook
rinpol	2314.00		NIST Webbook
tb	851.34	K	Joback Method
tc	1066.61	K	Joback Method
tf	529.29	K	Joback Method
vc	0.860	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	641.70	J/mol×K	851.34	Joback Method
cpg	653.01	J/mol×K	887.22	Joback Method
cpg	663.26	J/mol×K	923.10	Joback Method
cpg	672.45	J/mol×K	958.97	Joback Method
cpg	680.57	J/mol×K	994.85	Joback Method
cpg	687.61	J/mol×K	1030.73	Joback Method
cpg	693.58	J/mol×K	1066.61	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360704&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360704&amp;Units=SI</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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