

# Fumaric acid, 4-cyanophenyl 2-ethylhexyl ester

Inchi:	InChI=1S/C19H23NO4/c1-3-5-6-15(4-2)14-23-18(21)11-12-19(22)24-17-9-7-16(13-20)8-
InchiKey:	WMOIYLCWNVWVWBQ-VAWYXSNFSA-N
Formula:	C19H23NO4
SMILES:	CCCCC(CC)COC(=O)C=CC(=O)Oc1ccc(C#N)cc1
Mol. weight [g/mol]:	329.39

## Physical Properties

Property code	Value	Unit	Source
gf	-45.00	kJ/mol	Joback Method
hf	-423.21	kJ/mol	Joback Method
hfus	42.38	kJ/mol	Joback Method
hvap	89.19	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	3.779		Crippen Method
mvol	266.770	ml/mol	McGowan Method
pc	1480.43	kPa	Joback Method
rinpol	2527.00		NIST Webbook
rinpol	2527.00		NIST Webbook
tb	924.16	K	Joback Method
tc	1144.62	K	Joback Method
tf	532.06	K	Joback Method
vc	1.040	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	814.98	J/mol×K	924.16	Joback Method
cpg	827.42	J/mol×K	960.90	Joback Method
cpg	838.77	J/mol×K	997.65	Joback Method
cpg	849.09	J/mol×K	1034.39	Joback Method
cpg	858.39	J/mol×K	1071.13	Joback Method
cpg	866.74	J/mol×K	1107.87	Joback Method
cpg	874.15	J/mol×K	1144.62	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U405731&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405731&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>hvp:</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>rinp:</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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