

# Glutaric acid, 3-methylbut-2-yl 4-cyanophenyl ester

<b>Inchi:</b>	InChI=1S/C17H21NO4/c1-12(2)13(3)21-16(19)5-4-6-17(20)22-15-9-7-14(11-18)8-10-15/
<b>InchiKey:</b>	MLSLUPJBJJKSN-UHFFFAOYSA-N
<b>Formula:</b>	C17H21NO4
<b>SMILES:</b>	CC(C)C(C)OC(=O)CCCC(=O)Oc1ccc(C#N)cc1
<b>Mol. weight [g/mol]:</b>	303.35

## Physical Properties

Property code	Value	Unit	Source
gf	-144.50	kJ/mol	Joback Method
hf	-504.43	kJ/mol	Joback Method
hfus	33.47	kJ/mol	Joback Method
hvap	84.39	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	3.222		Crippen Method
mvol	242.890	ml/mol	McGowan Method
pc	1664.61	kPa	Joback Method
rinpol	2321.00		NIST Webbook
rinpol	2321.00		NIST Webbook
tb	873.80	K	Joback Method
tc	1092.41	K	Joback Method
tf	499.60	K	Joback Method
vc	0.942	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	728.88	J/molxK	873.80	Joback Method
cpg	741.38	J/molxK	910.24	Joback Method
cpg	752.76	J/molxK	946.67	Joback Method
cpg	763.02	J/molxK	983.11	Joback Method
cpg	772.18	J/molxK	1019.54	Joback Method
cpg	780.26	J/molxK	1055.98	Joback Method
cpg	787.27	J/molxK	1092.41	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=U393272&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393272&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>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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