

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

<b>Inchi:</b>	InChI=1S/C18H23NO4/c1-4-16(13(2)3)23-18(21)7-5-6-17(20)22-15-10-8-14(12-19)9-11-
<b>InchiKey:</b>	JUTBBSJJLOTPBH-UHFFFAOYSA-N
<b>Formula:</b>	C18H23NO4
<b>SMILES:</b>	CCC(OC(=O)CCCC(=O)Oc1ccc(C#N)cc1)C(C)C
<b>Mol. weight [g/mol]:</b>	317.38

## Physical Properties

Property code	Value	Unit	Source
gf	-136.08	kJ/mol	Joback Method
hf	-525.07	kJ/mol	Joback Method
hfus	36.06	kJ/mol	Joback Method
hvap	86.61	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	3.612		Crippen Method
mcvol	256.980	ml/mol	McGowan Method
pc	1541.49	kPa	Joback Method
rinpol	2403.00		NIST Webbook
rinpol	2403.00		NIST Webbook
tb	896.68	K	Joback Method
tc	1114.66	K	Joback Method
tf	510.87	K	Joback Method
vc	0.998	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	785.98	J/mol×K	896.68	Joback Method
cpg	798.66	J/mol×K	933.01	Joback Method
cpg	810.18	J/mol×K	969.34	Joback Method
cpg	820.54	J/mol×K	1005.67	Joback Method
cpg	829.77	J/mol×K	1042.00	Joback Method
cpg	837.88	J/mol×K	1078.33	Joback Method
cpg	844.91	J/mol×K	1114.66	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=U393273&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393273&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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