

# Glutaric acid, 2-(adamant-1-yl)ethyl ethyl ester

<b>Inchi:</b>	InChI=1S/C19H30O4/c1-2-22-17(20)4-3-5-18(21)23-7-6-19-11-14-8-15(12-19)10-16(9-14)
<b>InchiKey:</b>	NPXUJMOSPADRMB-UHFFFAOYSA-N
<b>Formula:</b>	C19H30O4
<b>SMILES:</b>	CCOC(=O)CCCC(=O)OCCC12CC3CC(CC(C3)C1)C2
<b>Mol. weight [g/mol]:</b>	322.44

## Physical Properties

Property code	Value	Unit	Source
gf	-201.79	kJ/mol	Joback Method
hf	-717.95	kJ/mol	Joback Method
hfus	37.62	kJ/mol	Joback Method
hvap	74.65	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	3.870		Crippen Method
mcvol	260.870	ml/mol	McGowan Method
pc	1570.96	kPa	Joback Method
rinpola	2405.00		NIST Webbook
rinpola	2405.00		NIST Webbook
tb	806.76	K	Joback Method
tc	1013.65	K	Joback Method
tf	518.17	K	Joback Method
vc	1.008	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	864.59	J/molxK	806.76	Joback Method
cpg	884.35	J/molxK	841.24	Joback Method
cpg	903.47	J/molxK	875.72	Joback Method
cpg	922.12	J/molxK	910.20	Joback Method
cpg	940.46	J/molxK	944.69	Joback Method
cpg	958.62	J/molxK	979.17	Joback Method
cpg	976.77	J/molxK	1013.65	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405388&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405388&amp;Units=SI</a>
<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>

# 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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