

# Glutaric acid, heptyl 2-methyloct-5-yn-4-yl ester

Inchi:	InChI=1S/C21H36O4/c1-5-7-9-10-11-16-24-20(22)14-12-15-21(23)25-19(13-8-6-2)17-18
InchiKey:	APVBEXAVCUMEJR-UHFFFAOYSA-N
Formula:	C21H36O4
SMILES:	CCC#CC(CC(C)C)OC(=O)CCCC(=O)OCCCCCCC
Mol. weight [g/mol]:	352.51

## Physical Properties

Property code	Value	Unit	Source
gf	-143.98	kJ/mol	Joback Method
hf	-704.63	kJ/mol	Joback Method
hfus	51.80	kJ/mol	Joback Method
hvap	82.03	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	5.042		Crippen Method
mcvol	313.030	ml/mol	McGowan Method
pc	1136.73	kPa	Joback Method
rinqol	3464.00		NIST Webbook
tb	840.58	K	Joback Method
tc	1035.64	K	Joback Method
tf	546.85	K	Joback Method
vc	1.210	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	980.96	J/molxK	840.58	Joback Method
cpg	998.81	J/molxK	873.09	Joback Method
cpg	1015.52	J/molxK	905.60	Joback Method
cpg	1031.10	J/molxK	938.11	Joback Method
cpg	1045.58	J/molxK	970.62	Joback Method
cpg	1058.97	J/molxK	1003.13	Joback Method
cpg	1071.30	J/molxK	1035.64	Joback Method

# Sources

<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=U359604&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359604&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>
<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>

# 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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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