

# Glutaric acid, 2,7-dimethyloct-5-yn-7-en-4-yl pentadecyl ester

<b>Inchi:</b>	InChI=1S/C30H52O4/c1-6-7-8-9-10-11-12-13-14-15-16-17-18-24-33-29(31)20-19-21-30(
<b>InchiKey:</b>	RCHKNFNBVSNEBW-UHFFFAOYSA-N
<b>Formula:</b>	C30H52O4
<b>SMILES:</b>	<chem>C=C(C)C#CC(CC(C)C)OC(=O)CCCC(=O)OCCCCCCCCCCCCCCC</chem>
<b>Mol. weight [g/mol]:</b>	476.73

## Physical Properties

Property code	Value	Unit	Source
gf	11.09	kJ/mol	Joback Method
hf	-774.75	kJ/mol	Joback Method
hfus	72.52	kJ/mol	Joback Method
hvap	101.47	kJ/mol	Joback Method
log10ws	-9.62		Crippen Method
logp	8.329		Crippen Method
mvol	435.540	ml/mol	McGowan Method
pc	698.76	kPa	Joback Method
rinpol	3174.00		NIST Webbook
rinpol	3174.00		NIST Webbook
tb	1043.06	K	Joback Method
tc	1287.99	K	Joback Method
tf	632.56	K	Joback Method
vc	1.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1517.19	J/mol×K	1043.06	Joback Method
cpg	1537.76	J/mol×K	1083.88	Joback Method
cpg	1556.37	J/mol×K	1124.70	Joback Method
cpg	1573.11	J/mol×K	1165.53	Joback Method
cpg	1588.06	J/mol×K	1206.35	Joback Method
cpg	1601.32	J/mol×K	1247.17	Joback Method
cpg	1612.96	J/mol×K	1287.99	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U359848&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359848&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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