

# Glutaric acid, but-3-yn-2-yl 2,4-dimethylpent-3-yl ester

<b>Inchi:</b>	InChI=1S/C16H26O4/c1-7-13(6)19-14(17)9-8-10-15(18)20-16(11(2)3)12(4)5/h1,11-13,16
<b>InchiKey:</b>	YBMUHBBBBAOLK-UHFFFAOYSA-N
<b>Formula:</b>	C16H26O4
<b>SMILES:</b>	<chem>C#CC(C)OC(=O)CCCC(=O)OC(C(C)C)C(C)C</chem>
<b>Mol. weight [g/mol]:</b>	282.38

## Physical Properties

Property code	Value	Unit	Source
gf	-170.69	kJ/mol	Joback Method
hf	-592.39	kJ/mol	Joback Method
hfus	31.65	kJ/mol	Joback Method
hvap	67.83	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	2.945		Crippen Method
mcvol	242.580	ml/mol	McGowan Method
pc	1623.29	kPa	Joback Method
rinpol	1695.00		NIST Webbook
rinpol	1695.00		NIST Webbook
tb	706.42	K	Joback Method
tc	898.71	K	Joback Method
tf	401.37	K	Joback Method
vc	0.917	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.67	J/mol×K	706.42	Joback Method
cpg	702.22	J/mol×K	738.47	Joback Method
cpg	717.86	J/mol×K	770.52	Joback Method
cpg	732.59	J/mol×K	802.56	Joback Method
cpg	746.44	J/mol×K	834.61	Joback Method
cpg	759.41	J/mol×K	866.66	Joback Method
cpg	771.53	J/mol×K	898.71	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393472&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393472&amp;Units=SI</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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