

# Glutaric acid, 3-methylbut-2-en-1-yl 3-methylbut-2-yl ester

<b>Inchi:</b>	InChI=1S/C15H26O4/c1-11(2)9-10-18-14(16)7-6-8-15(17)19-13(5)12(3)4/h9,12-13H,6-8,
<b>InchiKey:</b>	AXJNZKDGMIOKNO-UHFFFAOYSA-N
<b>Formula:</b>	C15H26O4
<b>SMILES:</b>	CC(C)=CCOC(=O)CCCC(=O)OC(C)C(C)C
<b>Mol. weight [g/mol]:</b>	270.36

## Physical Properties

Property code	Value	Unit	Source
gf	-325.63	kJ/mol	Joback Method
hf	-745.66	kJ/mol	Joback Method
hfus	32.03	kJ/mol	Joback Method
hvap	66.56	kJ/mol	Joback Method
log10ws	-3.55		Crippen Method
logp	3.254		Crippen Method
mcvol	232.790	ml/mol	McGowan Method
pc	1609.00	kPa	Joback Method
rinpola	1745.00		NIST Webbook
tb	698.34	K	Joback Method
tc	886.09	K	Joback Method
tf	354.09	K	Joback Method
vc	0.892	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.32	J/mol×K	698.34	Joback Method
cpg	671.58	J/mol×K	729.63	Joback Method
cpg	686.99	J/mol×K	760.92	Joback Method
cpg	701.57	J/mol×K	792.22	Joback Method
cpg	715.33	J/mol×K	823.51	Joback Method
cpg	728.30	J/mol×K	854.80	Joback Method
cpg	740.48	J/mol×K	886.09	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393567&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393567&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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