

# Glutaric acid, di(pent-2-en-1-yl) ester

<b>Inchi:</b>	InChI=1S/C15H24O4/c1-3-5-7-12-18-14(16)10-9-11-15(17)19-13-8-6-4-2/h5-8H,3-4,9-13
<b>InchiKey:</b>	ZFBHFPWHEBRPRL-KQQUZDAGSA-N
<b>Formula:</b>	C15H24O4
<b>SMILES:</b>	CCC=CCOC(=O)CCCC(=O)OCC=CCC
<b>Mol. weight [g/mol]:</b>	268.35

## Physical Properties

Property code	Value	Unit	Source
gf	-231.98	kJ/mol	Joback Method
hf	-608.09	kJ/mol	Joback Method
hfus	40.58	kJ/mol	Joback Method
hvap	67.21	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	3.175		Crippen Method
mcvol	228.490	ml/mol	McGowan Method
pc	1649.77	kPa	Joback Method
rinpol	1867.00		NIST Webbook
tb	703.50	K	Joback Method
tc	889.44	K	Joback Method
tf	392.97	K	Joback Method
vc	0.883	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	631.78	J/molxK	703.50	Joback Method
cpg	646.90	J/molxK	734.49	Joback Method
cpg	661.24	J/molxK	765.48	Joback Method
cpg	674.82	J/molxK	796.47	Joback Method
cpg	687.68	J/molxK	827.46	Joback Method
cpg	699.84	J/molxK	858.45	Joback Method
cpg	711.31	J/molxK	889.44	Joback Method
dvisc	0.0011790	Paxs	392.97	Joback Method
dvisc	0.0005772	Paxs	444.73	Joback Method

dvisc	0.0003279	Paxs	496.48	Joback Method
dvisc	0.0002073	Paxs	548.24	Joback Method
dvisc	0.0001418	Paxs	599.99	Joback Method
dvisc	0.0001031	Paxs	651.75	Joback Method
dvisc	0.0000785	Paxs	703.50	Joback Method

## Sources

<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=U405269&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405269&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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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