

# Glutaric acid, dec-2-yl 2,4-dimethylpent-3-yl ester

Inchi:	InChI=1S/C22H42O4/c1-7-8-9-10-11-12-14-19(6)25-20(23)15-13-16-21(24)26-22(17(2)3
InchiKey:	STYRZMHPAPLZQY-UHFFFAOYSA-N
Formula:	C22H42O4
SMILES:	CCCCCCCC(C)OC(=O)CCCC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	370.57

## Physical Properties

Property code	Value	Unit	Source
gf	-343.24	kJ/mol	Joback Method
hf	-1008.13	kJ/mol	Joback Method
hfus	44.22	kJ/mol	Joback Method
hvap	81.33	kJ/mol	Joback Method
log10ws	-6.50		Crippen Method
logp	6.063		Crippen Method
mcvol	335.720	ml/mol	McGowan Method
pc	972.91	kPa	Joback Method
rinpola	2279.00		NIST Webbook
tb	853.58	K	Joback Method
tc	1046.48	K	Joback Method
tf	422.02	K	Joback Method
vc	1.292	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1093.89	J/molxK	853.58	Joback Method
cpg	1113.12	J/molxK	885.73	Joback Method
cpg	1131.10	J/molxK	917.88	Joback Method
cpg	1147.86	J/molxK	950.03	Joback Method
cpg	1163.41	J/molxK	982.18	Joback Method
cpg	1177.78	J/molxK	1014.33	Joback Method
cpg	1191.00	J/molxK	1046.48	Joback Method
dvisc	0.0014060	Paxs	422.02	Joback Method
dvisc	0.0004550	Paxs	493.95	Joback Method

dvisc	0.0001962	Paxs	565.87	Joback Method
dvisc	0.0001022	Paxs	637.80	Joback Method
dvisc	0.0000608	Paxs	709.73	Joback Method
dvisc	0.0000398	Paxs	781.65	Joback Method
dvisc	0.0000280	Paxs	853.58	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=U393482&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393482&amp;Units=SI</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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