

# Glutaric acid, pent-4-enyl undecyl ester

<b>Inchi:</b>	InChI=1S/C21H38O4/c1-3-5-7-8-9-10-11-12-14-19-25-21(23)17-15-16-20(22)24-18-13-6
<b>InchiKey:</b>	GMNZGWZSOCLDRF-UHFFFAOYSA-N
<b>Formula:</b>	C21H38O4
<b>SMILES:</b>	C=CCCCOC(=O)CCCC(=O)OCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	354.52

## Physical Properties

Property code	Value	Unit	Source
gf	-254.06	kJ/mol	Joback Method
hf	-840.94	kJ/mol	Joback Method
hfus	54.44	kJ/mol	Joback Method
hvap	79.98	kJ/mol	Joback Method
log10ws	-6.19		Crippen Method
logp	5.740		Crippen Method
mcvol	317.330	ml/mol	McGowan Method
pc	1040.58	kPa	Joback Method
rinsol	2502.00		NIST Webbook
tb	829.14	K	Joback Method
tc	1016.39	K	Joback Method
tf	468.99	K	Joback Method
vc	1.240	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1002.79	J/molxK	829.14	Joback Method
cpg	1082.97	J/molxK	985.18	Joback Method
cpg	1068.99	J/molxK	953.97	Joback Method
cpg	1054.00	J/molxK	922.77	Joback Method
cpg	1037.99	J/molxK	891.56	Joback Method
cpg	1020.92	J/molxK	860.35	Joback Method
cpg	1095.98	J/molxK	1016.39	Joback Method
dvisc	0.0000493	Paxs	829.14	Joback Method
dvisc	0.0000651	Paxs	769.12	Joback Method

dvisc	0.0000902	Paxs	709.09	Joback Method
dvisc	0.0001326	Paxs	649.07	Joback Method
dvisc	0.0002110	Paxs	589.04	Joback Method
dvisc	0.0003732	Paxs	529.01	Joback Method
dvisc	0.0007636	Paxs	468.99	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U359990&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359990&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>
<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>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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