

# Glutaric acid, 2,6-dimethoxyphenyl tetradecyl ester

Inchi:	InChI=1S/C27H44O6/c1-4-5-6-7-8-9-10-11-12-13-14-15-22-32-25(28)20-17-21-26(29)33
InchiKey:	HWKQEXFLVKGTPD-UHFFFAOYSA-N
Formula:	C27H44O6
SMILES:	CCCCCCCCCCCCCOC(=O)CCCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	464.63

## Physical Properties

Property code	Value	Unit	Source
gf	-408.23	kJ/mol	Joback Method
hf	-1141.06	kJ/mol	Joback Method
hfus	66.90	kJ/mol	Joback Method
hvap	102.43	kJ/mol	Joback Method
log10ws	-8.00		Crippen Method
logp	7.024		Crippen Method
mcvol	394.150	ml/mol	McGowan Method
pc	839.67	kPa	Joback Method
rinsol	3441.00		NIST Webbook
tb	1051.22	K	Joback Method
tc	1295.42	K	Joback Method
tf	634.29	K	Joback Method
vc	1.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1362.75	J/molxK	1051.22	Joback Method
cpg	1378.41	J/molxK	1091.92	Joback Method
cpg	1391.74	J/molxK	1132.62	Joback Method
cpg	1402.77	J/molxK	1173.32	Joback Method
cpg	1411.51	J/molxK	1214.02	Joback Method
cpg	1417.98	J/molxK	1254.72	Joback Method
cpg	1422.21	J/molxK	1295.42	Joback Method
dvisc	0.0001138	Paxs	634.29	Joback Method
dvisc	0.0000633	Paxs	703.78	Joback Method

dvisc	0.0000392	Paxs	773.27	Joback Method
dvisc	0.0000262	Paxs	842.75	Joback Method
dvisc	0.0000187	Paxs	912.24	Joback Method
dvisc	0.0000139	Paxs	981.73	Joback Method
dvisc	0.0000108	Paxs	1051.22	Joback Method

## Sources

<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=U358716&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358716&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>

## 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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