

# Glutaric acid, 4-methoxyphenyl tetradecyl ester

Inchi:	InChI=1S/C26H42O5/c1-3-4-5-6-7-8-9-10-11-12-13-14-22-30-25(27)16-15-17-26(28)31-2
InchiKey:	RABLYBKUADMSPB-UHFFFAOYSA-N
Formula:	C26H42O5
SMILES:	CCCCCCCCCCCCCOC(=O)CCCC(=O)Oc1ccc(OC)cc1
Mol. weight [g/mol]:	434.61

## Physical Properties

Property code	Value	Unit	Source
gf	-302.02	kJ/mol	Joback Method
hf	-976.73	kJ/mol	Joback Method
hfus	63.51	kJ/mol	Joback Method
hvap	97.13	kJ/mol	Joback Method
log10ws	-7.88		Crippen Method
logp	7.015		Crippen Method
mcvol	374.190	ml/mol	McGowan Method
pc	905.61	kPa	Joback Method
rinpol	3340.00		NIST Webbook
rinpol	3340.00		NIST Webbook
tb	1000.94	K	Joback Method
tc	1227.37	K	Joback Method
tf	588.27	K	Joback Method
vc	1.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1273.11	J/molxK	1000.94	Joback Method
cpg	1339.75	J/molxK	1189.63	Joback Method
cpg	1329.82	J/molxK	1151.89	Joback Method
cpg	1318.22	J/molxK	1114.15	Joback Method
cpg	1304.93	J/molxK	1076.42	Joback Method
cpg	1289.90	J/molxK	1038.68	Joback Method
cpg	1348.07	J/molxK	1227.37	Joback Method
dvisc	0.0000168	Paxs	1000.94	Joback Method

dvisc	0.0000219	Paxs	932.16	Joback Method
dvisc	0.0000298	Paxs	863.38	Joback Method
dvisc	0.0000427	Paxs	794.61	Joback Method
dvisc	0.0000656	Paxs	725.83	Joback Method
dvisc	0.0001102	Paxs	657.05	Joback Method
dvisc	0.0002091	Paxs	588.27	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358748&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358748&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>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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