

# Glutaric acid, decyl 3-methoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C23H36O5/c1-3-4-5-6-7-8-9-10-17-27-22(24)15-12-16-23(25)28-19-20-13-11-
<b>InchiKey:</b>	GHXFTMAVWZAZPQ-UHFFFAOYSA-N
<b>Formula:</b>	C23H36O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCc1cccc(OC)c1
<b>Mol. weight [g/mol]:</b>	392.53

## Physical Properties

Property code	Value	Unit	Source
gf	-327.28	kJ/mol	Joback Method
hf	-914.81	kJ/mol	Joback Method
hfus	55.74	kJ/mol	Joback Method
hvap	90.45	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	5.593		Crippen Method
mcvol	331.920	ml/mol	McGowan Method
pc	1085.63	kPa	Joback Method
rinpola	2946.00		NIST Webbook
tb	932.30	K	Joback Method
tc	1142.00	K	Joback Method
tf	554.46	K	Joback Method
vc	1.282	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1087.84	J/molxK	932.30	Joback Method
cpg	1104.03	J/molxK	967.25	Joback Method
cpg	1118.78	J/molxK	1002.20	Joback Method
cpg	1132.12	J/molxK	1037.15	Joback Method
cpg	1144.07	J/molxK	1072.10	Joback Method
cpg	1154.64	J/molxK	1107.05	Joback Method
cpg	1163.87	J/molxK	1142.00	Joback Method
dvisc	0.0002993	Paxs	554.46	Joback Method
dvisc	0.0001626	Paxs	617.43	Joback Method

dvisc	0.0000989	Paxs	680.41	Joback Method
dvisc	0.0000654	Paxs	743.38	Joback Method
dvisc	0.0000462	Paxs	806.35	Joback Method
dvisc	0.0000343	Paxs	869.33	Joback Method
dvisc	0.0000265	Paxs	932.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377196&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377196&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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