

# Glutaric acid, decyl 3-phenylpropyl ester

<b>Inchi:</b>	InChI=1S/C24H38O4/c1-2-3-4-5-6-7-8-12-20-27-23(25)18-13-19-24(26)28-21-14-17-22-
<b>InchiKey:</b>	BFNWBBRCDJVNQY-UHFFFAOYSA-N
<b>Formula:</b>	C24H38O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	390.56

## Physical Properties

Property code	Value	Unit	Source
gf	-204.23	kJ/mol	Joback Method
hf	-791.76	kJ/mol	Joback Method
hfus	57.53	kJ/mol	Joback Method
hvap	89.61	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.017		Crippen Method
mcvol	340.140	ml/mol	McGowan Method
pc	1041.25	kPa	Joback Method
rinqol	2961.00		NIST Webbook
tb	927.78	K	Joback Method
tc	1136.42	K	Joback Method
tf	530.98	K	Joback Method
vc	1.319	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1119.96	J/molxK	927.78	Joback Method
cpg	1192.57	J/molxK	1101.65	Joback Method
cpg	1180.56	J/molxK	1066.87	Joback Method
cpg	1167.34	J/molxK	1032.10	Joback Method
cpg	1152.87	J/molxK	997.33	Joback Method
cpg	1137.09	J/molxK	962.55	Joback Method
cpg	1203.40	J/molxK	1136.42	Joback Method
dvisc	0.0000302	Paxs	927.78	Joback Method
dvisc	0.0000398	Paxs	861.65	Joback Method

dvisc	0.0000549	Paxs	795.51	Joback Method
dvisc	0.0000804	Paxs	729.38	Joback Method
dvisc	0.0001269	Paxs	663.25	Joback Method
dvisc	0.0002217	Paxs	597.11	Joback Method
dvisc	0.0004449	Paxs	530.98	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=U360139&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360139&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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