

# Glutaric acid, di(5-methoxy-3-phenylpentyl) ester

Inchi:	InChI=1S/C29H40O6/c1-32-20-16-26(24-10-5-3-6-11-24)18-22-34-28(30)14-9-15-29(31)
InchiKey:	RDKOKXBIOLKPQV-UHFFFAOYSA-N
Formula:	C29H40O6
SMILES:	COCCC(CCOC(=O)CCCC(=O)OCCC(CCOC)c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	484.62

## Physical Properties

Property code	Value	Unit	Source
gf	-264.60	kJ/mol	Joback Method
hf	-933.43	kJ/mol	Joback Method
hfus	59.85	kJ/mol	Joback Method
hvap	107.06	kJ/mol	Joback Method
log10ws	-5.99		Crippen Method
logp	5.664		Crippen Method
mvol	398.570	ml/mol	McGowan Method
pc	937.49	kPa	Joback Method
rinpol	3615.00		NIST Webbook
rinpol	3615.00		NIST Webbook
tb	1112.82	K	Joback Method
tc	1365.10	K	Joback Method
tf	628.21	K	Joback Method
vc	1.516	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1374.88	J/molxK	1112.82	Joback Method
cpg	1386.73	J/molxK	1154.87	Joback Method
cpg	1396.33	J/molxK	1196.91	Joback Method
cpg	1403.76	J/molxK	1238.96	Joback Method
cpg	1409.09	J/molxK	1281.01	Joback Method
cpg	1412.37	J/molxK	1323.06	Joback Method
cpg	1413.67	J/molxK	1365.10	Joback Method
dvisc	0.0001136	Paxs	628.21	Joback Method

dvisc	0.0000534	Paxs	708.98	Joback Method
dvisc	0.0000293	Paxs	789.75	Joback Method
dvisc	0.0000180	Paxs	870.51	Joback Method
dvisc	0.0000120	Paxs	951.28	Joback Method
dvisc	0.0000085	Paxs	1032.05	Joback Method
dvisc	0.0000063	Paxs	1112.82	Joback Method

## Sources

<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=U359540&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359540&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>

## 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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