

# Glutaric acid, dec-2-yl 2-isopropoxyphenyl ester

Inchi:	InChI=1S/C24H38O5/c1-5-6-7-8-9-10-14-20(4)28-23(25)17-13-18-24(26)29-22-16-12-11
InchiKey:	NIBCUJBTGSWEFZ-UHFFFAOYSA-N
Formula:	C24H38O5
SMILES:	CCCCCCCC(C)OC(=O)CCCC(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	406.56

## Physical Properties

Property code	Value	Unit	Source
gf	-323.74	kJ/mol	Joback Method
hf	-946.01	kJ/mol	Joback Method
hfus	51.28	kJ/mol	Joback Method
hvap	91.90	kJ/mol	Joback Method
log10ws	-7.27		Crippen Method
logp	6.232		Crippen Method
mcvol	346.010	ml/mol	McGowan Method
pc	1030.59	kPa	Joback Method
rinpol	2720.00		NIST Webbook
rinpol	2720.00		NIST Webbook
tb	954.30	K	Joback Method
tc	1168.72	K	Joback Method
tf	535.73	K	Joback Method
vc	1.325	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1149.98	J/molxK	954.30	Joback Method
cpg	1216.20	J/molxK	1132.98	Joback Method
cpg	1205.97	J/molxK	1097.25	Joback Method
cpg	1194.26	J/molxK	1061.51	Joback Method
cpg	1181.04	J/molxK	1025.77	Joback Method
cpg	1166.29	J/molxK	990.04	Joback Method
cpg	1224.96	J/molxK	1168.72	Joback Method
dvisc	0.0000189	Paxs	954.30	Joback Method

dvisc	0.0000253	Paxs	884.54	Joback Method
dvisc	0.0000354	Paxs	814.78	Joback Method
dvisc	0.0000528	Paxs	745.01	Joback Method
dvisc	0.0000857	Paxs	675.25	Joback Method
dvisc	0.0001554	Paxs	605.49	Joback Method
dvisc	0.0003289	Paxs	535.73	Joback Method

## Sources

<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=U391876&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391876&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>

## 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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