

# Glutaric acid, dodecyl 2-isopropoxyphenyl ester

Inchi:	InChI=1S/C26H42O5/c1-4-5-6-7-8-9-10-11-12-15-21-29-25(27)19-16-20-26(28)31-24-18
InchiKey:	PGSMYARHACQTMJ-UHFFFAOYSA-N
Formula:	C26H42O5
SMILES:	CCCCCCCCCCCCOC(=O)CCCC(=O)Oc1ccccc1OC(C)C
Mol. weight [g/mol]:	434.61

## Physical Properties

Property code	Value	Unit	Source
gf	-304.46	kJ/mol	Joback Method
hf	-982.01	kJ/mol	Joback Method
hfus	59.99	kJ/mol	Joback Method
hvap	96.74	kJ/mol	Joback Method
log10ws	-8.00		Crippen Method
logp	7.014		Crippen Method
mvol	374.190	ml/mol	McGowan Method
pc	909.98	kPa	Joback Method
rinpol	3102.00		NIST Webbook
tb	1000.50	K	Joback Method
tc	1226.12	K	Joback Method
tf	573.27	K	Joback Method
vc	1.444	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1273.44	J/molxK	1000.50	Joback Method
cpg	1290.12	J/molxK	1038.10	Joback Method
cpg	1305.02	J/molxK	1075.71	Joback Method
cpg	1318.19	J/molxK	1113.31	Joback Method
cpg	1329.67	J/molxK	1150.91	Joback Method
cpg	1339.48	J/molxK	1188.52	Joback Method
cpg	1347.66	J/molxK	1226.12	Joback Method
dvisc	0.0002292	Paxs	573.27	Joback Method
dvisc	0.0001137	Paxs	644.47	Joback Method

dvisc	0.0000649	Paxs	715.68	Joback Method
dvisc	0.0000409	Paxs	786.88	Joback Method
dvisc	0.0000279	Paxs	858.09	Joback Method
dvisc	0.0000202	Paxs	929.29	Joback Method
dvisc	0.0000153	Paxs	1000.50	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=U358579&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358579&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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