

# Glutaric acid, dec-2-yl 3-phenoxybenzyl ester

**Inchi:** InChI=1S/C28H38O5/c1-3-4-5-6-7-9-14-23(2)32-28(30)20-13-19-27(29)31-22-24-15-12-11  
**InchiKey:** PAHBXWFGGASUFM-UHFFFAOYSA-N  
**Formula:** C28H38O5  
**SMILES:** CCCCCCCC(C)OC(=O)CCCC(=O)OCc1cccc(Oc2ccccc2)c1  
**Mol. weight [g/mol]:** 454.60

## Physical Properties

Property code	Value	Unit	Source
gf	-175.21	kJ/mol	Joback Method
hf	-786.76	kJ/mol	Joback Method
hfus	59.21	kJ/mol	Joback Method
hvap	103.47	kJ/mol	Joback Method
log10ws	-8.10		Crippen Method
logp	7.375		Crippen Method
mcvol	378.610	ml/mol	McGowan Method
pc	991.38	kPa	Joback Method
rinpol	3302.00		NIST Webbook
rinpol	3302.00		NIST Webbook
tb	1072.94	K	Joback Method
tc	1313.86	K	Joback Method
tf	622.23	K	Joback Method
vc	1.448	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1287.17	J/molxK	1072.94	Joback Method
cpg	1300.58	J/molxK	1113.09	Joback Method
cpg	1312.12	J/molxK	1153.25	Joback Method
cpg	1321.87	J/molxK	1193.40	Joback Method
cpg	1329.90	J/molxK	1233.55	Joback Method
cpg	1336.25	J/molxK	1273.70	Joback Method
cpg	1341.01	J/molxK	1313.86	Joback Method
dvisc	0.0001568	Paxs	622.23	Joback Method

dvisc	0.0000804	Paxs	697.35	Joback Method
dvisc	0.0000469	Paxs	772.47	Joback Method
dvisc	0.0000301	Paxs	847.58	Joback Method
dvisc	0.0000208	Paxs	922.70	Joback Method
dvisc	0.0000152	Paxs	997.82	Joback Method
dvisc	0.0000116	Paxs	1072.94	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U392133&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392133&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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