

# Glutaric acid, 3-methylbut-2-en-1-yl 3-phenylpropyl ester

Inchi:	InChI=1S/C19H26O4/c1-16(2)13-15-23-19(21)12-6-11-18(20)22-14-7-10-17-8-4-3-5-9-17
InchiKey:	XDTLPXPWTZYMK-UHFFFAOYSA-N
Formula:	C19H26O4
SMILES:	CC(C)=CCOC(=O)CCCC(=O)OCCc1ccccc1
Mol. weight [g/mol]:	318.41

## Physical Properties

Property code	Value	Unit	Source
gf	-174.66	kJ/mol	Joback Method
hf	-581.13	kJ/mol	Joback Method
hfus	43.47	kJ/mol	Joback Method
hvap	78.51	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.842		Crippen Method
mvol	265.390	ml/mol	McGowan Method
pc	1523.50	kPa	Joback Method
rinpol	2387.00		NIST Webbook
rinpol	2387.00		NIST Webbook
tb	817.42	K	Joback Method
tc	1022.73	K	Joback Method
tf	455.59	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	793.48	J/molxK	817.42	Joback Method
cpg	809.13	J/molxK	851.64	Joback Method
cpg	823.73	J/molxK	885.86	Joback Method
cpg	837.30	J/molxK	920.08	Joback Method
cpg	849.88	J/molxK	954.30	Joback Method
cpg	861.52	J/molxK	988.51	Joback Method
cpg	872.25	J/molxK	1022.73	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=U391773&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391773&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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