

# Glutaric acid, 3,5-dimethylphenyl isobutyl ester

Inchi:	InChI=1S/C17H24O4/c1-12(2)11-20-16(18)6-5-7-17(19)21-15-9-13(3)8-14(4)10-15/h8-10
InchiKey:	OMVBWHPLNWZNRU-UHFFFAOYSA-N
Formula:	C17H24O4
SMILES:	Cc1cc(C)cc(OC(=O)CCCC(=O)OCC(C)C)c1
Mol. weight [g/mol]:	292.37

## Physical Properties

Property code	Value	Unit	Source
gf	-284.87	kJ/mol	Joback Method
hf	-675.50	kJ/mol	Joback Method
hfus	35.10	kJ/mol	Joback Method
hvap	74.96	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	3.578		Crippen Method
mvol	241.510	ml/mol	McGowan Method
pc	1667.33	kPa	Joback Method
rinpol	2156.00		NIST Webbook
tb	777.14	K	Joback Method
tc	981.04	K	Joback Method
tf	462.13	K	Joback Method
vc	0.921	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	704.13	J/molxK	777.14	Joback Method
cpg	771.51	J/molxK	947.06	Joback Method
cpg	760.06	J/molxK	913.08	Joback Method
cpg	747.62	J/molxK	879.09	Joback Method
cpg	734.15	J/molxK	845.11	Joback Method
cpg	719.66	J/molxK	811.12	Joback Method
cpg	781.95	J/molxK	981.04	Joback Method
dvisc	0.0000760	Paxs	777.14	Joback Method
dvisc	0.0000971	Paxs	724.64	Joback Method

dvisc	0.0001287	Paxs	672.14	Joback Method
dvisc	0.0001789	Paxs	619.63	Joback Method
dvisc	0.0002645	Paxs	567.13	Joback Method
dvisc	0.0004235	Paxs	514.63	Joback Method
dvisc	0.0007546	Paxs	462.13	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358697&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358697&amp;Units=SI</a>
<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.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>

## 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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