

# Glutaric acid, ethyl 2-methoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C15H20O5/c1-3-19-14(16)9-6-10-15(17)20-11-12-7-4-5-8-13(12)18-2/h4-5,7-8
<b>InchiKey:</b>	IZGIYVJAZQAXAG-UHFFFAOYSA-N
<b>Formula:</b>	C15H20O5
<b>SMILES:</b>	CCOC(=O)CCCC(=O)OCc1ccccc1OC
<b>Mol. weight [g/mol]:</b>	280.32

## Physical Properties

Property code	Value	Unit	Source
gf	-394.64	kJ/mol	Joback Method
hf	-749.69	kJ/mol	Joback Method
hfus	35.02	kJ/mol	Joback Method
hvap	72.64	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	2.472		Crippen Method
mcvol	219.200	ml/mol	McGowan Method
pc	1945.79	kPa	Joback Method
rinpola	2106.00		NIST Webbook
tb	749.26	K	Joback Method
tc	951.78	K	Joback Method
tf	464.30	K	Joback Method
vc	0.834	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.91	J/molxK	749.26	Joback Method
cpg	683.50	J/molxK	918.02	Joback Method
cpg	672.91	J/molxK	884.27	Joback Method
cpg	661.35	J/molxK	850.52	Joback Method
cpg	648.83	J/molxK	816.77	Joback Method
cpg	635.35	J/molxK	783.01	Joback Method
cpg	693.12	J/molxK	951.78	Joback Method
dvisc	0.0000811	Paxs	749.26	Joback Method
dvisc	0.0001023	Paxs	701.77	Joback Method

dvisc	0.0001333	Paxs	654.27	Joback Method
dvisc	0.0001812	Paxs	606.78	Joback Method
dvisc	0.0002594	Paxs	559.29	Joback Method
dvisc	0.0003969	Paxs	511.79	Joback Method
dvisc	0.0006625	Paxs	464.30	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U376924&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376924&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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