

# Glutaric acid, butyl 2-methoxyethyl ester

<b>Inchi:</b>	InChI=1S/C12H22O5/c1-3-4-8-16-11(13)6-5-7-12(14)17-10-9-15-2/h3-10H2,1-2H3
<b>InchiKey:</b>	GDZOHHDRJNORKP-UHFFFAOYSA-N
<b>Formula:</b>	C12H22O5
<b>SMILES:</b>	CCCCOC(=O)CCCC(=O)OCCOC
<b>Mol. weight [g/mol]:</b>	246.30

## Physical Properties

Property code	Value	Unit	Source
gf	-522.68	kJ/mol	Joback Method
hf	-912.83	kJ/mol	Joback Method
hfus	33.60	kJ/mol	Joback Method
hvap	63.03	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	1.690		Crippen Method
mcvol	200.690	ml/mol	McGowan Method
pc	1898.60	kPa	Joback Method
rinpola	1727.00		NIST Webbook
tb	648.96	K	Joback Method
tc	826.09	K	Joback Method
tf	391.55	K	Joback Method
vc	0.773	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.30	J/molxK	648.96	Joback Method
cpg	608.90	J/molxK	796.57	Joback Method
cpg	597.08	J/molxK	767.04	Joback Method
cpg	584.60	J/molxK	737.52	Joback Method
cpg	571.47	J/molxK	708.00	Joback Method
cpg	557.70	J/molxK	678.48	Joback Method
cpg	620.07	J/molxK	826.09	Joback Method
dvisc	0.0001185	Paxs	648.96	Joback Method
dvisc	0.0001522	Paxs	606.06	Joback Method

dvisc	0.0002032	Paxs	563.16	Joback Method
dvisc	0.0002846	Paxs	520.25	Joback Method
dvisc	0.0004234	Paxs	477.35	Joback Method
dvisc	0.0006812	Paxs	434.45	Joback Method
dvisc	0.0012164	Paxs	391.55	Joback Method

## Sources

<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=U360101&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360101&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>

## 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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