

# Glutaric acid, butyl ethyl ester

<b>Inchi:</b>	InChI=1S/C11H20O4/c1-3-5-9-15-11(13)8-6-7-10(12)14-4-2/h3-9H2,1-2H3
<b>InchiKey:</b>	MGZXJNSGUWHUNS-UHFFFAOYSA-N
<b>Formula:</b>	C11H20O4
<b>SMILES:</b>	CCCCOC(=O)CCCC(=O)OCC
<b>Mol. weight [g/mol]:</b>	216.27

## Physical Properties

Property code	Value	Unit	Source
gf	-426.10	kJ/mol	Joback Method
hf	-759.97	kJ/mol	Joback Method
hfus	29.82	kJ/mol	Joback Method
hvap	58.39	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.063		Crippen Method
mcvol	180.730	ml/mol	McGowan Method
pc	2100.34	kPa	Joback Method
rinpola	1510.00		NIST Webbook
tb	603.66	K	Joback Method
tc	782.25	K	Joback Method
tf	358.05	K	Joback Method
vc	0.700	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	465.03	J/molxK	603.66	Joback Method
cpg	528.71	J/molxK	752.49	Joback Method
cpg	517.15	J/molxK	722.72	Joback Method
cpg	505.00	J/molxK	692.96	Joback Method
cpg	492.26	J/molxK	663.19	Joback Method
cpg	478.94	J/molxK	633.43	Joback Method
cpg	539.69	J/molxK	782.25	Joback Method
dvisc	0.0001703	Paxs	603.66	Joback Method
dvisc	0.0002188	Paxs	562.73	Joback Method

dvisc	0.0002926	Paxs	521.79	Joback Method
dvisc	0.0004109	Paxs	480.86	Joback Method
dvisc	0.0006149	Paxs	439.92	Joback Method
dvisc	0.0009995	Paxs	398.99	Joback Method
dvisc	0.0018153	Paxs	358.05	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360001&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360001&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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