

# Glutaric acid, 2-ethoxyethyl heptyl ester

<b>Inchi:</b>	InChI=1S/C16H30O5/c1-3-5-6-7-8-12-20-15(17)10-9-11-16(18)21-14-13-19-4-2/h3-14H2
<b>InchiKey:</b>	LJNKSBDPFCZGQW-UHFFFAOYSA-N
<b>Formula:</b>	C16H30O5
<b>SMILES:</b>	CCCCCCCOC(=O)CCCC(=O)OCCOCC
<b>Mol. weight [g/mol]:</b>	302.41

## Physical Properties

Property code	Value	Unit	Source
gf	-489.00	kJ/mol	Joback Method
hf	-995.39	kJ/mol	Joback Method
hfus	43.96	kJ/mol	Joback Method
hvap	71.93	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	3.250		Crippen Method
mvol	257.050	ml/mol	McGowan Method
pc	1393.33	kPa	Joback Method
rinpol	2085.00		NIST Webbook
tb	740.48	K	Joback Method
tc	918.04	K	Joback Method
tf	436.63	K	Joback Method
vc	0.998	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	763.64	J/molxK	740.48	Joback Method
cpg	780.01	J/molxK	770.07	Joback Method
cpg	795.54	J/molxK	799.67	Joback Method
cpg	810.22	J/molxK	829.26	Joback Method
cpg	824.05	J/molxK	858.86	Joback Method
cpg	837.03	J/molxK	888.45	Joback Method
cpg	849.16	J/molxK	918.04	Joback Method
dvisc	0.0008707	Paxs	436.63	Joback Method
dvisc	0.0004605	Paxs	487.27	Joback Method

dvisc	0.0002746	Paxs	537.91	Joback Method
dvisc	0.0001790	Paxs	588.56	Joback Method
dvisc	0.0001249	Paxs	639.20	Joback Method
dvisc	0.0000918	Paxs	689.84	Joback Method
dvisc	0.0000704	Paxs	740.48	Joback Method

## Sources

<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=U359623&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359623&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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