

# Glutaric acid, ethyl isopropyl ester

<b>Inchi:</b>	InChI=1S/C10H18O4/c1-4-13-9(11)6-5-7-10(12)14-8(2)3/h8H,4-7H2,1-3H3
<b>InchiKey:</b>	WOMPFGVPMWJROX-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O4
<b>SMILES:</b>	CCOC(=O)CCCC(=O)OC(C)C
<b>Mol. weight [g/mol]:</b>	202.25

## Physical Properties

Property code	Value	Unit	Source
gf	-436.96	kJ/mol	Joback Method
hf	-744.61	kJ/mol	Joback Method
hfus	23.71	kJ/mol	Joback Method
hvap	55.78	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.671		Crippen Method
mcvol	166.640	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
rinqol	1314.00		NIST Webbook
tb	580.34	K	Joback Method
tc	763.73	K	Joback Method
tf	331.78	K	Joback Method
vc	0.637	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	416.07	J/molxK	580.34	Joback Method
cpg	429.55	J/molxK	610.90	Joback Method
cpg	442.48	J/molxK	641.47	Joback Method
cpg	454.83	J/molxK	672.03	Joback Method
cpg	466.62	J/molxK	702.60	Joback Method
cpg	477.83	J/molxK	733.16	Joback Method
cpg	488.46	J/molxK	763.73	Joback Method
dvisc	0.0024229	Paxs	331.78	Joback Method
dvisc	0.0012300	Paxs	373.21	Joback Method

dvisc	0.0007150	Paxs	414.63	Joback Method
dvisc	0.0004587	Paxs	456.06	Joback Method
dvisc	0.0003168	Paxs	497.49	Joback Method
dvisc	0.0002316	Paxs	538.91	Joback Method
dvisc	0.0001771	Paxs	580.34	Joback Method

## Sources

<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=U359276&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U359276&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>

## 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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