

# Glutaric acid, monochloride, 2-methylbutyl ester

Inchi:	InChI=1S/C10H17ClO3/c1-3-8(2)7-14-10(13)6-4-5-9(11)12/h8H,3-7H2,1-2H3
InchiKey:	WSVUQWCOCGLWAW-UHFFFAOYSA-N
Formula:	C10H17ClO3
SMILES:	CCC(C)COC(=O)CCCC(=O)Cl
Mol. weight [g/mol]:	220.69

## Physical Properties

Property code	Value	Unit	Source
gf	-343.89	kJ/mol	Joback Method
hf	-628.13	kJ/mol	Joback Method
hfus	26.72	kJ/mol	Joback Method
hvap	57.75	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.511		Crippen Method
mcvol	173.010	ml/mol	McGowan Method
pc	2271.90	kPa	Joback Method
rinpola	1494.00		NIST Webbook
tb	595.35	K	Joback Method
tc	784.22	K	Joback Method
tf	339.47	K	Joback Method
vc	0.668	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.71	J/molxK	595.35	Joback Method
cpg	477.53	J/molxK	752.74	Joback Method
cpg	466.98	J/molxK	721.27	Joback Method
cpg	455.83	J/molxK	689.79	Joback Method
cpg	444.07	J/molxK	658.31	Joback Method
cpg	431.70	J/molxK	626.83	Joback Method
cpg	487.50	J/molxK	784.22	Joback Method
dvisc	0.0002108	Paxs	595.35	Joback Method
dvisc	0.0002758	Paxs	552.70	Joback Method

dvisc	0.0003776	Paxs	510.06	Joback Method
dvisc	0.0005473	Paxs	467.41	Joback Method
dvisc	0.0008548	Paxs	424.76	Joback Method
dvisc	0.0014748	Paxs	382.12	Joback Method
dvisc	0.0029181	Paxs	339.47	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U358408&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358408&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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