

# Glutaric acid, monochloride, heptyl ester

<b>Inchi:</b>	InChI=1S/C12H21ClO3/c1-2-3-4-5-6-10-16-12(15)9-7-8-11(13)14/h2-10H2,1H3
<b>InchiKey:</b>	XXHHJMNRNYJBCD-UHFFFAOYSA-N
<b>Formula:</b>	C12H21ClO3
<b>SMILES:</b>	CCCCCCCOC(=O)CCCC(=O)Cl
<b>Mol. weight [g/mol]:</b>	248.75

## Physical Properties

Property code	Value	Unit	Source
gf	-324.61	kJ/mol	Joback Method
hf	-664.13	kJ/mol	Joback Method
hfus	35.42	kJ/mol	Joback Method
hvap	62.59	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.436		Crippen Method
mcvol	201.190	ml/mol	McGowan Method
pc	1893.65	kPa	Joback Method
rinpola	1722.00		NIST Webbook
tb	641.55	K	Joback Method
tc	823.79	K	Joback Method
tf	377.01	K	Joback Method
vc	0.786	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.47	J/molxK	641.55	Joback Method
cpg	581.87	J/molxK	793.41	Joback Method
cpg	570.49	J/molxK	763.04	Joback Method
cpg	558.47	J/molxK	732.67	Joback Method
cpg	545.81	J/molxK	702.30	Joback Method
cpg	532.48	J/molxK	671.92	Joback Method
cpg	592.63	J/molxK	823.79	Joback Method
dvisc	0.0001795	Paxs	641.55	Joback Method
dvisc	0.0002318	Paxs	597.46	Joback Method

dvisc	0.0003120	Paxs	553.37	Joback Method
dvisc	0.0004419	Paxs	509.28	Joback Method
dvisc	0.0006688	Paxs	465.19	Joback Method
dvisc	0.0011038	Paxs	421.10	Joback Method
dvisc	0.0020482	Paxs	377.01	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=U358338&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358338&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>mccvol:</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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