

# Glutaric acid, 2,2-dichloroethyl isopropyl ester

<b>Inchi:</b>	InChI=1S/C10H16Cl2O4/c1-7(2)16-10(14)5-3-4-9(13)15-6-8(11)12/h7-8H,3-6H2,1-2H3
<b>InchiKey:</b>	GDZQGVJEUBFMFI-UHFFFAOYSA-N
<b>Formula:</b>	C10H16Cl2O4
<b>SMILES:</b>	CC(C)OC(=O)CCCC(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	271.14

## Physical Properties

Property code	Value	Unit	Source
gf	-463.26	kJ/mol	Joback Method
hf	-781.37	kJ/mol	Joback Method
hfus	28.58	kJ/mol	Joback Method
hvap	64.16	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	2.455		Crippen Method
mvol	191.120	ml/mol	McGowan Method
pc	2175.46	kPa	Joback Method
rinpol	1612.00		NIST Webbook
rinpol	1612.00		NIST Webbook
tb	654.76	K	Joback Method
tc	849.84	K	Joback Method
tf	376.62	K	Joback Method
vc	0.730	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	470.82	J/molxK	654.76	Joback Method
cpg	483.16	J/molxK	687.27	Joback Method
cpg	494.84	J/molxK	719.79	Joback Method
cpg	505.86	J/molxK	752.30	Joback Method
cpg	516.21	J/molxK	784.81	Joback Method
cpg	525.89	J/molxK	817.33	Joback Method
cpg	534.91	J/molxK	849.84	Joback Method
dvisc	0.0020941	Paxs	376.62	Joback Method

dvisc	0.0010395	Paxs	422.98	Joback Method
dvisc	0.0005926	Paxs	469.33	Joback Method
dvisc	0.0003737	Paxs	515.69	Joback Method
dvisc	0.0002543	Paxs	562.05	Joback Method
dvisc	0.0001835	Paxs	608.40	Joback Method
dvisc	0.0001387	Paxs	654.76	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=U393372&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393372&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>

## 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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