

# Glutaric acid, 2,3-dichlorophenyl 3,7-dimethyloctyl ester

**Inchi:** InChI=1S/C21H30Cl2O4/c1-15(2)7-4-8-16(3)13-14-26-19(24)11-6-12-20(25)27-18-10-5-9  
**InchiKey:** LUESKPZWMBPICL-UHFFFAOYSA-N  
**Formula:** C21H30Cl2O4  
**SMILES:** CC(C)CCCC(C)CCOC(=O)CCCC(=O)Oc1cccc(Cl)c1Cl  
**Mol. weight [g/mol]:** 417.37

## Physical Properties

Property code	Value	Unit	Source
gf	-277.49	kJ/mol	Joback Method
hf	-794.82	kJ/mol	Joback Method
hfus	50.33	kJ/mol	Joback Method
hvap	92.25	kJ/mol	Joback Method
log10ws	-6.98		Crippen Method
logp	6.465		Crippen Method
mvol	322.350	ml/mol	McGowan Method
pc	1189.88	kPa	Joback Method
rinpol	2860.00		NIST Webbook
rinpol	2860.00		NIST Webbook
tb	943.08	K	Joback Method
tc	1159.39	K	Joback Method
tf	552.05	K	Joback Method
vc	1.238	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	989.36	J/molxK	943.08	Joback Method
cpg	1003.31	J/molxK	979.13	Joback Method
cpg	1015.96	J/molxK	1015.18	Joback Method
cpg	1027.34	J/molxK	1051.23	Joback Method
cpg	1037.49	J/molxK	1087.28	Joback Method
cpg	1046.42	J/molxK	1123.33	Joback Method
cpg	1054.18	J/molxK	1159.39	Joback Method
dvisc	0.0003700	Paxs	552.05	Joback Method

dvisc	0.0001941	Paxs	617.22	Joback Method
dvisc	0.0001151	Paxs	682.39	Joback Method
dvisc	0.0000748	Paxs	747.56	Joback Method
dvisc	0.0000521	Paxs	812.74	Joback Method
dvisc	0.0000383	Paxs	877.91	Joback Method
dvisc	0.0000294	Paxs	943.08	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391490&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391490&amp;Units=SI</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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