

# Glutaric acid, 2,3-dichlorophenyl 10-chlorodecyl ester

<b>Inchi:</b>	InChI=1S/C21H29Cl3O4/c22-15-7-5-3-1-2-4-6-8-16-27-19(25)13-10-14-20(26)28-18-12-9
<b>InchiKey:</b>	MGGDMXNYLPMZOC-UHFFFAOYSA-N
<b>Formula:</b>	C21H29Cl3O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1cccc(Cl)c1Cl)OCCCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	451.81

## Physical Properties

Property code	Value	Unit	Source
gf	-284.54	kJ/mol	Joback Method
hf	-800.00	kJ/mol	Joback Method
hfus	61.57	kJ/mol	Joback Method
hvap	97.41	kJ/mol	Joback Method
log10ws	-7.61		Crippen Method
logp	6.972		Crippen Method
mvol	334.590	ml/mol	McGowan Method
pc	1147.54	kPa	Joback Method
rinpol	3297.00		NIST Webbook
rinpol	3297.00		NIST Webbook
tb	981.39	K	Joback Method
tc	1202.67	K	Joback Method
tf	611.97	K	Joback Method
vc	1.298	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1011.40	J/molxK	981.39	Joback Method
cpg	1024.13	J/molxK	1018.27	Joback Method
cpg	1035.58	J/molxK	1055.15	Joback Method
cpg	1045.79	J/molxK	1092.03	Joback Method
cpg	1054.79	J/molxK	1128.91	Joback Method
cpg	1062.61	J/molxK	1165.79	Joback Method
cpg	1069.29	J/molxK	1202.67	Joback Method
dvisc	0.0002508	Paxs	611.97	Joback Method

dvisc	0.0001494	Paxs	673.54	Joback Method
dvisc	0.0000970	Paxs	735.11	Joback Method
dvisc	0.0000674	Paxs	796.68	Joback Method
dvisc	0.0000493	Paxs	858.25	Joback Method
dvisc	0.0000376	Paxs	919.82	Joback Method
dvisc	0.0000297	Paxs	981.39	Joback Method

## Sources

<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=U392475&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392475&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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