

# Glutaric acid, 2-(2,4-dichlorophenyl)ethyl propyl ester

Inchi:	InChI=1S/C16H20Cl2O4/c1-2-9-21-15(19)4-3-5-16(20)22-10-8-12-6-7-13(17)11-14(12)18
InchiKey:	WCYIZFXFLOIFOA-UHFFFAOYSA-N
Formula:	C16H20Cl2O4
SMILES:	CCCOC(=O)CCCC(=O)OCCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	347.23

## Physical Properties

Property code	Value	Unit	Source
gf	-314.71	kJ/mol	Joback Method
hf	-681.06	kJ/mol	Joback Method
hfus	44.43	kJ/mol	Joback Method
hvap	81.89	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	4.203		Crippen Method
mcvol	251.900	ml/mol	McGowan Method
pc	1686.56	kPa	Joback Method
rinpola	2480.00		NIST Webbook
tb	829.56	K	Joback Method
tc	1039.86	K	Joback Method
tf	525.70	K	Joback Method
vc	0.970	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	698.88	J/molxK	829.56	Joback Method
cpg	752.91	J/molxK	1004.81	Joback Method
cpg	744.06	J/molxK	969.76	Joback Method
cpg	734.25	J/molxK	934.71	Joback Method
cpg	723.45	J/molxK	899.66	Joback Method
cpg	711.67	J/molxK	864.61	Joback Method
cpg	760.81	J/molxK	1039.86	Joback Method
dvisc	0.0000729	Paxs	829.56	Joback Method
dvisc	0.0000910	Paxs	778.92	Joback Method

dvisc	0.0001171	Paxs	728.27	Joback Method
dvisc	0.0001566	Paxs	677.63	Joback Method
dvisc	0.0002193	Paxs	626.99	Joback Method
dvisc	0.0003260	Paxs	576.34	Joback Method
dvisc	0.0005229	Paxs	525.70	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=U377383&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377383&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>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

Latest version available from:

<https://www.chemeo.com/cid/69-524-4/Glutaric-acid-2-2-4-dichlorophenyl-ethyl-propyl-ester.pdf>

Generated by Cheméo on 2024-04-17 03:26:03.646849693 +0000 UTC m=+15613612.567427008.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.