

# Glutaric acid, 2,2-dichloroethyl 3-phenoxybenzyl ester

<b>Inchi:</b>	InChI=1S/C20H20Cl2O5/c21-18(22)14-26-20(24)11-5-10-19(23)25-13-15-6-4-9-17(12-15)
<b>InchiKey:</b>	NXHURRGYZYMSAY-UHFFFAOYSA-N
<b>Formula:</b>	C20H20Cl2O5
<b>SMILES:</b>	O=C(CCCC(=O)OCC(Cl)Cl)OCc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	411.28

## Physical Properties

Property code	Value	Unit	Source
gf	-266.43	kJ/mol	Joback Method
hf	-653.12	kJ/mol	Joback Method
hfus	46.88	kJ/mol	Joback Method
hvap	94.43	kJ/mol	Joback Method
log10ws	-5.55		Crippen Method
logp	5.039		Crippen Method
mvol	290.370	ml/mol	McGowan Method
pc	1623.29	kPa	Joback Method
rinpol	3002.00		NIST Webbook
rinpol	3002.00		NIST Webbook
tb	964.76	K	Joback Method
tc	1198.09	K	Joback Method
tf	591.91	K	Joback Method
vc	1.097	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	852.00	J/molxK	964.76	Joback Method
cpg	862.61	J/molxK	1003.65	Joback Method
cpg	871.80	J/molxK	1042.54	Joback Method
cpg	879.60	J/molxK	1081.42	Joback Method
cpg	886.05	J/molxK	1120.31	Joback Method
cpg	891.18	J/molxK	1159.20	Joback Method
cpg	895.01	J/molxK	1198.09	Joback Method
dvisc	0.0002657	Paxs	591.91	Joback Method

dvisc	0.0001528	Paxs	654.05	Joback Method
dvisc	0.0000967	Paxs	716.19	Joback Method
dvisc	0.0000658	Paxs	778.34	Joback Method
dvisc	0.0000474	Paxs	840.48	Joback Method
dvisc	0.0000358	Paxs	902.62	Joback Method
dvisc	0.0000280	Paxs	964.76	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=U392125&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392125&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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