

# Glutaric acid, 8-chlorooctyl 3-phenylpropyl ester

Inchi:	InChI=1S/C22H33ClO4/c23-17-8-3-1-2-4-9-18-26-21(24)15-10-16-22(25)27-19-11-14-20
InchiKey:	RHZFTOHWLVLXAS-UHFFFAOYSA-N
Formula:	C22H33ClO4
SMILES:	O=C(CCCC(=O)OCCCCc1ccccc1)OCCCCCCCCl
Mol. weight [g/mol]:	396.95

## Physical Properties

Property code	Value	Unit	Source
gf	-233.00	kJ/mol	Joback Method
hf	-766.22	kJ/mol	Joback Method
hfus	56.55	kJ/mol	Joback Method
hvap	89.54	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	5.455		Crippen Method
mvol	324.200	ml/mol	McGowan Method
pc	1153.78	kPa	Joback Method
rinpol	3047.00		NIST Webbook
rinpol	3047.00		NIST Webbook
tb	919.45	K	Joback Method
tc	1128.16	K	Joback Method
tf	538.36	K	Joback Method
vc	1.256	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1025.13	J/molxK	919.45	Joback Method
cpg	1040.62	J/molxK	954.23	Joback Method
cpg	1054.87	J/molxK	989.02	Joback Method
cpg	1067.91	J/molxK	1023.80	Joback Method
cpg	1079.79	J/molxK	1058.59	Joback Method
cpg	1090.53	J/molxK	1093.37	Joback Method
cpg	1100.20	J/molxK	1128.16	Joback Method
dvisc	0.0004460	Paxs	538.36	Joback Method

dvisc	0.0002325	Paxs	601.88	Joback Method
dvisc	0.0001372	Paxs	665.39	Joback Method
dvisc	0.0000888	Paxs	728.90	Joback Method
dvisc	0.0000616	Paxs	792.42	Joback Method
dvisc	0.0000451	Paxs	855.93	Joback Method
dvisc	0.0000345	Paxs	919.45	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=U391782&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391782&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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