

# Glutaric acid, 2-(cyclohexyl)ethyl 8-chlorooctyl ester

<b>Inchi:</b>	InChI=1S/C21H37ClO4/c22-16-8-3-1-2-4-9-17-25-20(23)13-10-14-21(24)26-18-15-19-11
<b>InchiKey:</b>	JSNLAVBCJUXCSZ-UHFFFAOYSA-N
<b>Formula:</b>	C21H37ClO4
<b>SMILES:</b>	O=C(CCCC(=O)OCCC1CCCCC1)OCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	388.97

## Physical Properties

Property code	Value	Unit	Source
gf	-329.38	kJ/mol	Joback Method
hf	-927.79	kJ/mol	Joback Method
hfus	51.75	kJ/mol	Joback Method
hvap	85.47	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	5.793		Crippen Method
mvol	323.010	ml/mol	McGowan Method
pc	1130.62	kPa	Joback Method
rinpol	2836.00		NIST Webbook
rinpol	2836.00		NIST Webbook
tb	889.44	K	Joback Method
tc	1092.90	K	Joback Method
tf	508.05	K	Joback Method
vc	1.242	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1058.30	J/molxK	889.44	Joback Method
cpg	1076.05	J/molxK	923.35	Joback Method
cpg	1092.42	J/molxK	957.26	Joback Method
cpg	1107.43	J/molxK	991.17	Joback Method
cpg	1121.12	J/molxK	1025.08	Joback Method
cpg	1133.52	J/molxK	1058.99	Joback Method
cpg	1144.66	J/molxK	1092.90	Joback Method
dvisc	0.0006650	Paxs	508.05	Joback Method

dvisc	0.0003215	Paxs	571.62	Joback Method
dvisc	0.0001798	Paxs	635.18	Joback Method
dvisc	0.0001118	Paxs	698.75	Joback Method
dvisc	0.0000752	Paxs	762.31	Joback Method
dvisc	0.0000538	Paxs	825.88	Joback Method
dvisc	0.0000404	Paxs	889.44	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405422&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405422&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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/94-648-9/Glutaric-acid-2-cyclohexyl-ethyl-8-chlorooctyl-ester.pdf>

Generated by Cheméo on 2024-05-03 17:17:13.887631494 +0000 UTC m=+17045882.808208810.

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