

# Glutaric acid, 3-chlorophenyl hept-4-yl ester

<b>Inchi:</b>	InChI=1S/C18H25ClO4/c1-3-7-15(8-4-2)22-17(20)11-6-12-18(21)23-16-10-5-9-14(19)13
<b>InchiKey:</b>	BVIHIPBBYBCEBA-UHFFFAOYSA-N
<b>Formula:</b>	C18H25ClO4
<b>SMILES:</b>	CCCC(CCC)OC(=O)CCCC(=O)Oc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	340.84

## Physical Properties

Property code	Value	Unit	Source
gf	-278.75	kJ/mol	Joback Method
hf	-700.41	kJ/mol	Joback Method
hfus	42.28	kJ/mol	Joback Method
hvap	80.91	kJ/mol	Joback Method
log10ws	-5.63		Crippen Method
logp	4.928		Crippen Method
mvol	267.840	ml/mol	McGowan Method
pc	1517.57	kPa	Joback Method
rinpol	2297.00		NIST Webbook
rinpol	2297.00		NIST Webbook
tb	832.47	K	Joback Method
tc	1038.76	K	Joback Method
tf	490.80	K	Joback Method
vc	1.026	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	788.94	J/molxK	832.47	Joback Method
cpg	851.52	J/molxK	1004.38	Joback Method
cpg	841.11	J/molxK	970.00	Joback Method
cpg	829.67	J/molxK	935.62	Joback Method
cpg	817.18	J/molxK	901.23	Joback Method
cpg	803.61	J/molxK	866.85	Joback Method
cpg	860.90	J/molxK	1038.76	Joback Method
dvisc	0.0000577	Paxs	832.47	Joback Method

dvisc	0.0000747	Paxs	775.52	Joback Method
dvisc	0.0001008	Paxs	718.58	Joback Method
dvisc	0.0001432	Paxs	661.63	Joback Method
dvisc	0.0002174	Paxs	604.69	Joback Method
dvisc	0.0003599	Paxs	547.75	Joback Method
dvisc	0.0006700	Paxs	490.80	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=U392522&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392522&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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